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1989-90 ANNUAL

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BOOTH GARDNER
GOVERNOR

To The Citizens of Washington State:

I am pleased to again join with the Washington State Department of Agriculture and the Washington Agricultural Statistics Service to present to you this factual view of one of Washington's most important industries -- agriculture.

In reviewing this publication, it's obvious how critical the involvement and cooperation of members of the agriculture industry are to preparing this and other reports. I commend you for your efforts.

I also want to express my appreciation to the many individuals and groups who took part in developing and shaping Washington Environment 2010, our stewardship plan for the state's natural environment. Your input has made a difference and you will see the results of Environment 2010 in the priorities and efforts of your state government.

Agriculture depends on a clean and renewing environment. Our economy depends on a strong and viable agricultural sector. I, along with many others, must make decisions that shape the future of our state. The current, accurate information on agriculture in this bulletin and reports issued throughout the year is critical to those decisions. My thanks to all who voluntarily provided information to make this publication possible.

Booth-Gardner

Booth Gardner
Governor

C. ALAN PETTIBONE
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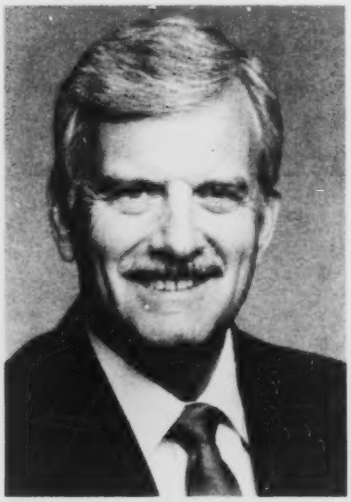

Washington agriculture had another record year in terms of the value of its production in 1989. Though some commodities experienced low prices, industry was able to move a record amount of product to the market. Our industry continues to grow and move forward. This is due not only to the skills and expertise of the industry but also to the willingness of the industry to look to the future.

More than ever before, the dynamic world in which we live requires us to plan, to think ahead, if we are to prosper. I have been pleased to see this forward-thinking attitude in the industry's approach to natural resource issues. As recognized in AG-2000, agriculture must be involved in the decision-making process when it comes to our natural resources. Agriculture must not only be involved but must also provide leadership in bringing individuals and groups together and in reaching decisions.

Agriculture is providing leadership in the natural resource arena and in the other priority areas it identified through the AG-2000 project two years ago. Members of the recently-created Food Processing Industry Development Council and the other AG-2000 committees have accepted the challenge of helping shape the future of the industry by making plans and taking actions now.

Agriculture is interconnected with the rest of the world in many ways. The issues we are addressing -- food safety, water quality, pesticide use, to name a few -- are of great concern to the general public, here at home and throughout the world. The agriculture industry and this department both have important roles in dealing with these issues. Our goal is to keep Washington a safe, quality place to live, and to keep agriculture viable and economically sound.

One of the many tools we use to plan for the future is the information in this publication. *"Washington Agricultural Statistics"* is our annual summary publication and part of an extensive schedule of reports issued by the Washington Agricultural Statistics Service. This statistical program is a joint effort of the Washington State Department of Agriculture and the National Agricultural Statistics Service, USDA. Through this cooperative arrangement, we are able to provide a comprehensive program of agricultural data without duplication of resources.

The data for this publication were supplied by thousands of state farmers, ranchers, agribusinessmen, and others. Each of those individuals has my sincere thanks for the important role they played in making this publication and other agricultural reports possible.

Sincerely,

C. Alan Pettibone

C. Alan Pettibone
Director

The cover of this year's bulletin depicts one of Washington's leading industries - potatoes. The section for potatoes has been expanded to provide historic information and comparisons that illustrate the highest yields in the nation and our competitive position as a stable supplier of potatoes.

Special thanks are given to the Washington Farmer-Stockman staff for their contribution in providing the cover color separation. Photo courtesy of Linda Larsen.

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TABLE OF CONTENTS

GENERAL

Value of Production 6
Top Forty Agricultural Commodities 7
Washington's Rank in Agriculture 8
Number of Farms and Land in Farms 9
Agricultural Statistics Districts 9
Record Highs and Lows 10-11
Season Review and Weather 12-17
Prices Received 18-19
Prices Paid 20-22
Index of Prices 23
Farm Economics 24-25
Farm Labor 26
Floriculture 27-29
Exports 30-33
Usual Planting and Harvesting Dates 34
Estimates Schedule 140

FIELD CROPS

General Information 35
Acreage, Production, Price and Value 36-37
All Wheat 38-39
Winter Wheat 40
Spring Wheat 40
Wheat Varieties 1990 41-47
Winter Wheat 1988-89 48-49
Spring Wheat 1988-89 50-51
Barley 52
Barley Varieties 1990 53-55
Barley 1988-89 56-57
Oats 58-59
Corn, For Grain and Silage 60-62
Hay 63-67
Dry Beans 68-69
Potatoes 70-77
Mint 78-79
Hops 80-81
Grass Seeds 82-83

FRUITS

General Information 84-85
Production, Price, and Value 86-87
Production by Fruit Districts 88
Harvesting Costs 89
Apples 90
Refrigerated Space 91
Grapes 92-93
Apricots 94
Peaches 94
Sweet Cherries 95
Bartlett and Other Pears 96
Prunes 97
Filberts 97

VEGETABLES

Acreage, Production, and Value 98-99
Asparagus 100
Carrots 101
Sweet Corn 102
Green Peas, Processing 103
Lettuce 104
Dry Onions 105
Mushrooms 106

BERRIES

General Information 107
Cultivated Blackberries 107
Acreage, Production, and Value 108
Strawberries 109
Red Raspberries 110
Blueberries 111
Cranberries 112

LIVESTOCK

General Information 113
Value of Production 1985-89 114
Inventory and Value 115
Cattle and Calves 116-117
Cattle on Feed 118-119
Milk Production, Utilization, and Value 120-121
Dairy Products 122-123
Hogs 124-125
Sheep and Lambs 126-127
Poultry 128-129
Mink 130
Bees and Honey 131
Livestock County Estimates 132-137
Aquaculture 138-139

VALUE OF PRODUCTION RECORD HIGH

The farmgate value of production for Washington's agricultural products reached a record high of $3.86 billion for 1989. The previous record was $3.72 billion set in 1988. The farmgate value is a relative measure that is calculated by multiplying the production by the season average price for each commodity. Livestock, as a group, contributed the most to setting the record high and is a rival for the field crop group. Livestock's contribution was $1.13 billion and field crops' total was $1.37 billion.

The value of production has increased over fourfold during the past two decades. The 1970 value was $901 million, the 1972 value was $1.18 billion, and the 1974 value was $2.01 billion. The $3 billion level was broken in 1981 with $3.10 billion value of production.

Milk regained the number 1 commodity position in 1989 with a record $559 million and represents an increase of 13 percent from 1988. Both production and price were responsible for the increase.

Wheat slipped to the number two slot with both the production and price declining. The production was down 11 percent and the season average price of $4.05 was 14 cents less than 1988.

Apples were the third-ranked commodity, the same position as 1988, and contributed $436 million to the State's economy. Apple production tied the record with 5 billion pounds produced and accounted for over half of the National supply, but the price averaged $174 per ton, down one-third from the 1988 average price of $260 per ton.

Washington's diversity is apparent with the comparison of the top forty commodities. The importance of the State is illustrated by Washington's rank as the leading state for 7 commodities and in the top 10 for an additional 17 commodities.

Value of Production, Washington

Year	Field Crops	Fruit & Nuts	Vege-Tables	Seed Crops 1/	Berry Crops	Total Crops	Specialty Products 2/	Livestock & Products	State Total
	1,000 Dollars								
1975	1,077,227	208,846	93,933	26,045	12,747	1,418,798	120,356	454,375	1,993,529
1976	920,547	283,467	92,295	30,320	14,988	1,341,617	108,776	483,460	1,933,853
1977	753,390	361,917	86,718	27,073	18,176	1,247,274	149,987	487,483	1,884,744
1978	955,076	417,810	103,679	35,325	20,840	1,532,730	141,595	602,144	2,276,469
1979	1,012,707	457,566	127,098	31,969	21,905	1,651,245	186,000	765,929	2,603,174
1980	1,432,130	369,823	119,527	41,795	17,263	1,980,538	160,400	810,984	2,951,922
1981	1,411,703	438,382	138,790	31,975	22,279	2,043,129	173,192	881,843	3,098,164
1982	1,356,088	388,951	144,915	N/A	28,788	1,918,742	170,089	892,485	2,981,316
1983	1,484,640	502,141	138,770	N/A	26,750	2,152,301	179,020	908,434	3,239,755
1984	1,508,748	461,495	149,682	N/A	21,125	2,141,050	195,398	939,523	3,275,971
1985	1,229,633	490,021	155,976	25,195	27,369	1,928,194	215,693	885,151	3,029,038
1986	1,054,581	683,039	162,274	26,151	24,077	1,950,122	226,690	886,314	3,063,126
1987	987,515	555,487	171,064	35,618	31,106	1,780,790	274,326	924,501	2,979,617
1988	1,384,207	724,227	191,216	40,503	32,260	2,372,413	314,349	1,031,848	3,718,610
1989	1,373,006	700,096	219,615	31,792	33,230	2,357,739	374,958	1,130,336	3,863,033

1/ Seed crops not available for 1982-1984 due to program modifications.

2/ Includes forest products, nursery products, greenhouse products, other horticultural products, and mushrooms.

Top Forty Agricultural Commodities, Washington

Commodity	Rank			Value of Production			% Change 1989 vs 1988
	1987	1988	1989	1987	1988	1989	
					1,000 Dollars		
Milk	1	3	1	474,991	495,851	559,224	13
Wheat	4	1	2	322,284	522,158	447,970	-14
Apples	2	2	3	348,000	505,050	436,000	-14
Cattle and Calves	3	4	4	325,594	401,461	402,172	0
Potatoes	5	5	5	244,404	284,625	321,550	13
Hay	6	6	6	143,117	222,391	253,260	14
Nursery & Greenhouse Products	7	7	7	125,000	130,000	140,000	8
All Pears	9	8	8	67,717	90,486	103,118	14
Eggs	13	11	9	48,211	55,402	79,131	43
Grapes	11	14	10	55,356	44,601	69,158	55
Sweet Cherries	8	10	11	68,332	60,918	67,390	11
Barley	10	9	12	66,338	85,064	65,366	-23
Hops	12	12	13	49,365	54,062	57,691	7
Asparagus	14	13	14	40,257	47,198	55,074	17
Chickens & Broilers	15	16	15	36,045	41,661	51,363	23
Corn, Grain	17	17	16	29,240	40,800	44,100	8
Sweet Corn, All	16	19	17	30,867	33,441	38,864	16
Onions	18	20	18	27,342	26,776	36,001	34
Mint Oil	19	18	19	26,461	35,046	30,397	-13
Green Peas, Processing	22	23	20	21,714	21,361	25,977	22
Corn, Silage	21	21	21	22,000	24,000	25,000	4
Dry Edible Beans	27	24	22	11,488	20,850	23,318	12
Dry Edible Peas	24	22	23	16,112	21,593	20,129	-7
Alfalfa Seed	29	27	24	11,172	16,770	17,582	5
Red Raspberries	26	28	25	12,109	13,482	16,269	21
Carrots	30	26	26	10,831	17,412	14,407	-17
Lentils	25	29	27	12,804	10,056	11,794	17
Kentucky Bluegrass Seed	23	25	28	19,404	20,064	11,470	-43
Peaches	34	30	29	7,076	9,660	11,212	16
Hogs & Pigs	31	32	30	9,268	8,717	9,411	8
Wrinkled Seed Peas	39	36	31	3,180	5,275	9,104	73
Mink	28	31	32	11,325	9,219	9,080	-2
Mushrooms	33	33	33	7,576	7,327	8,306	13
Lettuce	38	37	34	3,576	5,141	8,120	58
Cranberries	35	35	35	5,850	6,062	6,349	5
Strawberries	32	34	36	8,180	6,838	5,440	-20
Sheep, Lambs & Wool	37	40	37	3,858	4,342	4,624	6
Blueberries	36	38	38	4,312	4,932	4,326	-12
Oats	-	39	39	2,772	4,807	3,827	-20
Cucumbers for Pickles	40	-	40	3,055	2,676	3,066	15
Aquaculture 1/	20	15	NA	24,229	41,778	NA	NA

1/ The Department of Fisheries State of Washington annually calculates the value of aquaculture production. The 1989 preliminary value was not available by publication date.

- Commodity not ranked.

N/A - Not available.

Washington's Rank in the Nation's Agriculture

Item	**Rank Among States**		**Washington Production 1989**	**Unit**	**Washington Percent of U. S.**	**Leading State**
	1989	**1988**				
			1,000 Units			
Crops						
Hops	1	1	43,377	Lbs.	73.1	Washington
Spearmint Oil	1	1	1,102	Lbs.	59.7	Washington
Peppermint Oil	2	2	1,574	Lbs.	23.7	Oregon
Potatoes, Fall	2	2	64,310	Cwt.	17.4	Idaho
Barley	5	3	28,420	Bu.	7.0	Idaho
Wheat, All	5	3	110,610	Bu.	5.4	Kansas
Dry Edible Beans	7	7	929	Cwt.	3.8	Michigan
All Hay	23	19	2,814	Tons	1.9	Texas
Fruit						
Apples, All	1	1	2,500.0	Tons	50.4	Washington
Pears, All	1	1	349.0	Tons	38.1	Washington
Sweet Cherries	1	1	84.0	Tons	43.2	Washington
Apricots	2	2	1.6	Tons	1.4	California
Grapes	2	2	229.0	Tons	3.9	California
Prunes and Plums	2	2	13.5	Tons	2.8	California
Peaches	7	6	22.0	Tons	3.3	California
Vegetables						
Carrots, Processing	1	1	126.9	Tons	25.7	Washington
Green Peas, Processing	3	1	99.2	Tons	19.6	Wisconsin
Asparagus	2	2	1,024.0	Cwt.	41.0	California
Sweet Corn, Processing	3	3	470.5	Tons	16.0	Wisconsin
Dry Onions, All Summer	6	5	3,315	Cwt.	8.1	California
Berries						
Red Raspberries	1	1	28,980	Lbs.	53.7	Washington
Strawberries, All	6	4	114	Cwt.	1.2	California
Cranberries	5	5	156	Bbls.	4.1	Massachusetts
Livestock						
Mink	6	6	237	Pelts	5.2	Wisconsin
Milk Production	10	9	4,097,000	Lbs.	2.8	Wisconsin
Milk Cows 1/	11	11	221	Head	2.2	Wisconsin
Eggs Produced	16	16	1,299,000	Eggs	1.9	California
Farm Chickens 2/	16	18	5,826	Head	1.6	California
Honey	17	19	3,036	Lbs.	1.8	California
Broilers Produced	19	19	30,500	Head	.6	Arkansas
Sheep and Lambs 1/	28	29	83	Head	.7	Texas
All Cattle and Calves 1/	29	30	1,330	Head	1.3	Texas
Hogs and Pigs 2/	34	35	56	Head	.1	Iowa

1/ January 1, 1990/1989 Inventory. 2/ December 1, 1989/1988 Inventory.

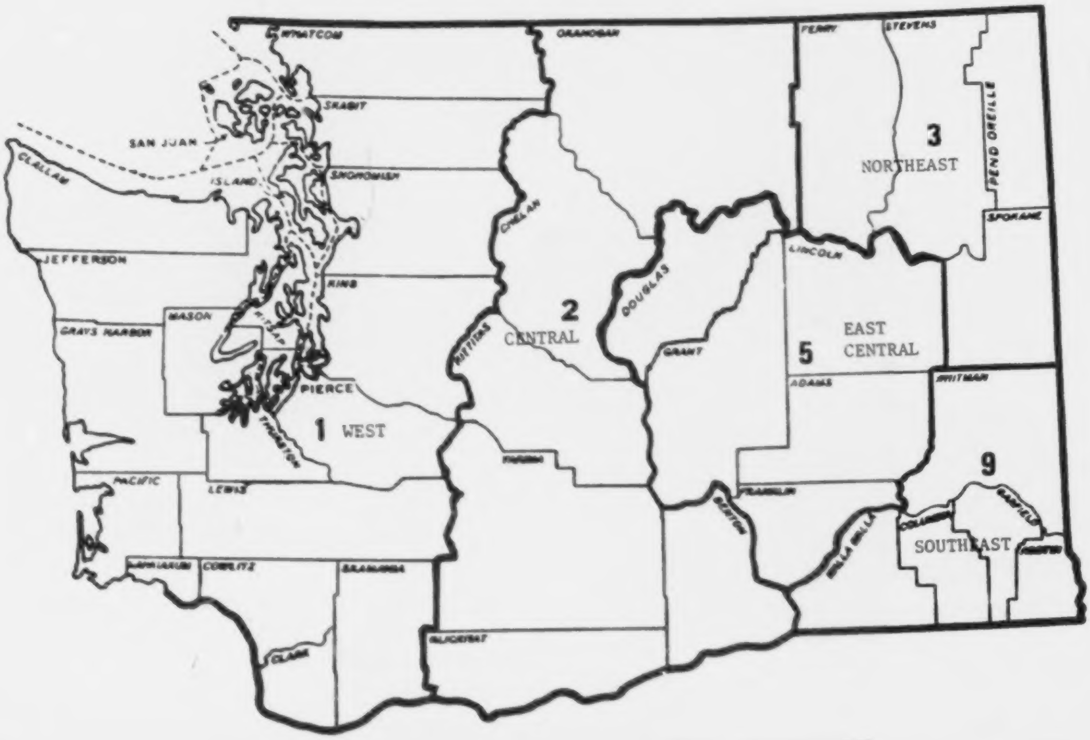
Number of Farms and Land in Farms 1/

Year	Washington			United States		
	No. of Farms	Land in Farms, Acres	Avg. Size of Farm	No. of Farms	Land in Farms, Acres	Avg. Size of Farm
	1,000	1,000	Acres	1,000	1,000	Acres
1976	34.0	16,100	474	2,497	1,054,075	422
1977	34.0	16,100	474	2,456	1,047,785	427
1978	36.0	16,100	447	2,436	1,044,790	429
1979	37.0	16,300	441	2,437	1,042,015	428
1980	38.0	16,300	429	2,440	1,038,885	426
1981	39.5	16,400	415	2,440	1,034,190	424
1982	39.0	16,400	421	2,407	1,027,795	427
1983	38.0	16,300	429	2,379	1,023,425	430
1984	38.0	16,100	424	2,334	1,017,803	436
1985	38.0	16,100	424	2,293	1,012,073	441
1986	38.0	16,000	421	2,250	1,005,333	447
1987	38.0	16,000	421	2,213	998,923	451
1988	38.0	16,000	421	2,197	994,543	453
1989	38.0	16,000	421	2,171	991,153	457
1990 2/	37.0	16,000	432	2,143	987,721	461

1/ A place with annual sales of agricultural products of $1,000 or more.

2/ Preliminary.

Agricultural Statistics Districts (ASD)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WAHKIAKUM
COWLITZ
SKAMANIA
KLICKITAT
CLARK

Record Highs and Lows in Washington Agriculture

Field Crops, Vegetables & Berries	Year Estimates Started	Record High or Low	Acreage		Yield			Production	
			Harvested	Year	Unit	Per Acre	Year	Total	Year
			1,000					1,000	
All Wheat	1879	High	3,200	1976	Bu.	64.2	1983	172,570	1983
		Low	82	1879	Bu.	12.5	1918	1,660	1880
Barley	1882	High	1,180	1985	Bu.	75.0	1980	63,700	1984
		Low	24	1882	Bu.	13.0	1918	672	1882
Oats	1882	High	270	1909	Bu.	68.0	1984	13,230	1909
		Low	30	1/	Bu.	33.5	1918	1,505	1977
Corn, Grain	1919	High	160	1982	Bu.	175.0	1989	24,000	1982
		Low	6	1948	Bu.	26.5	1934	318	1934
Corn, Silage	1919	High	67	1973	Tons	**25.0**	**2/**	1,340	1973
		Low	7	3/	Tons	6.9	1919	70	1920
Dry Edible Beans 4/	1929	High	73	1958	Cwt.	22.2	1983	1,402	1958
		Low	1	5/	Cwt.	2.2	1929	9	1930
Dry Edible Peas 6/	1929	High	390	1943	Cwt.	25.5	1980	5,259	1943
		Low	42	1929	Cwt.	7.1	1949	330	1929
Lentils	1949	High	163	1980	Lbs.	1,250	7/	163,000	1980
		Low	2	1949	Lbs.	230	1977	1,700	1949
Potatoes	1882	High	126	1985	Cwt.	550	1988	66,960	1987
		Low	8	1882	Cwt.	61	1883	551	1883
Hops	1915	High	31.3	1981	Lbs.	2,380	1926	59,470	1981
		Low	1.9	1923	Lbs.	1,340	1919	2,680	1919
All Hay	1909	High	1,046	1934	Tons	3.65	1984	2,921	1984
		Low	730	1987	Tons	1.58	1933	1,332	1909
Mint Oil 8/	1929	High	43.2	1978	Lbs.	118	1986	3,528	1978
		Low	.4	1934	Lbs.	25	1932	13	1932
Asparagus	1923	High	**32.00**	**9/**	Cwt.	42	1945	**1,024**	**1989**
		Low	.45	1923	Cwt.	14	1924	7	1924
Carrots	1929	High	**6.3**	**1989**	Cwt.	520	9/	**3,276**	**1989**
		Low	.5	1929	Cwt.	150	1929	75	1929
Green Peas, Processing	1928	High	90.10	1968	Cwt.	41.2	1987	2,799	1965
		Low	1.44	1928	Cwt.	16.1	1940	274	1928
Lettuce	1918	High	5.00	1934	Cwt.	**290**	**1989**	677	1934
		Low	.19	1918	Cwt.	100	1943	34	1918
Onions	1918	High	7.7	1989	Cwt.	459	1966	**3,315**	**1989**
		Low	.8	1918	Cwt.	171	1921	182	1918
Snap Beans, Processing	1918	High	4.9	1968	Cwt.	122.2	1961	352	1968
		Low	.1	10/	Cwt.	44.0	1928	6	10/
Sweet Corn, All	1934	High	54.60	1982	Cwt.	**181**	**1989**	**9,711**	**1989**
		Low	.25	1934	Cwt.	42	1934	500	1934
Cranberries	1950	High	**1.40**	**1989**	Cwt.	162.0	1968	162,000	1968
		Low	.70	11/	Cwt.	42.7	1960	42,711	1960
Strawberries	1918	High	9.00	1932	Cwt.	96.0	1987	496	1962
		Low	**1.90**	**1989**	Cwt.	16.2	1930	66	1918
Alfalfa Seed 12/	1937	High	38.0	1973	Lbs.	**730**	**1989**	20,520	1973
		Low	1.7	1943	Lbs.	69	1939	190	1944
Kentucky Bluegrass Seed, All	1963	High	43.4	1973	Lbs.	667	1978	22,531	1971
		Low	16.7	1963	Lbs.	193	1977	3,910	1977
Red Clover Seed, All 12/	1935	High	13.0	1978	Lbs.	490	14/	3,900	1978
		Low	1.0	13/	Lbs.	125	1938	140	1935

1/ 1978, 1980, 1982, 1984, 1987. 2/ 1987, 1988, **1989**. 3/ 1946, 1947. 4/ No estimates for 1931-36. 5/ 1930, 1937. 6/ Excludes both wrinkled seed peas and Austrian winter peas. 7/ 1975, 1976. 8/ Only peppermint before 1952. 9/ 1988, **1989**. 10/ 1920, 1921. 11/ 1950, 1951. Estimates for 1950-58, acreage only. 12/ Estimates discontinued for 1982-84. 13/ 1935, 1936, 1973. 14/ 1987, 1988.

Record Highs and Lows in Washington Agriculture (continued)

Fruit	**Year Estimates Started**	**Record High or Low**	**Production**		
			Unit	**Total**	**Year**
Apples	1889	High Low	Million Pounds	**5,000.0** 13.6	**1/** 1889
Cherries, Sweet	1934	High Low	Tons	89,000 1,800	1983 1966
Pears, Bartlett	1919	High Low	Tons	172,125 28,925	1944 1920
Pears, Other	1919	High Low	Tons	**187,000** 10,250	**1989** 1924
Grapes	1909	High Low	Tons	249,500 900	1987 2/
Prunes	1919	High Low	Tons	45,200 9,100	1935 1986
Apricots	1927	High Low	Tons	28,000 800	1947 1965
Cherries, Tart 3/	1934	High Low	Tons	7,100 500	1940 1961
Peaches	1899	High Low	Million Pounds	123.1 1.0	1947 1965

Livestock	**Year Estimates Started**	**Record High or Low**	**Inventory Jan. 1 or Production**		
			Unit	**Total**	**Year**
All Cattle	1867	High Low	1,000 Head	1,579 81	1980 1867
Milk Cows	1867	High Low	1,000 Head	380 5	4/ 1867
Cattle and Calves on Feed	1930	High Low	1,000 Head	221 6	5/ 1935
Chickens on Farms	1924	High Low	1,000 Head	8,250 4,782	1931 1953
Broilers	1934	High Low	1,000 Head	**30,500** 450	**1989** 1934
Hogs and Pigs	1867	High Low	1,000 Head	434 10	1944 1867
Sheep	1867	High Low	1,000 Head	815 53	1902 1985
Milk	1924	High Low	Million Pounds	**4,097** 1,540	**1989** 1924
Eggs	1924	High Low	Million Eggs	1,355 626	1985 1924
Mink Pelts	1969	High Low	1,000 Pelts	313 142	1969 1972
Bees	1913	High Low	1,000 Colonies	100 51	1959 1913

1/ 1987, **1989**. 2/ 1909, 1910. 3/ Official estimates 1934-1971.
4/ 1943, 1944, 1945. 5/ October 1, 1984.

1989 SEASON REVIEW

The 1989 winter wheat crop was seeded by the end of **November 1988**. Rains fell across the State to help alleviate some of the moisture shortages and drought stress to the newly planted winter wheat. Temperatures were normal during the month. The apple and corn silage harvests were nearing completion. Carrots were being dug and caneberries pruned. Orchard cleanup, rodent control, equipment repair, maintenance, and bookkeeping were the major activities through the winter months. **December** temperatures were below normal. Rains fell weekly in Western Washington and the last half of the month in Eastern Washington.

Rains fell across the State in **January** with temperatures above normal. Pruning fruit trees and caneberries were the main activities. Early calving and lambing began in Klickitat, Okanogan, and Pacific Counties while winter livestock feeding programs continued across the State. A cold front hit the State the first week of **February** and hovered over the State for the remainder of the month with temperatures well below normal. Snow was received but was not enough to protect the winter wheat and damage occurred. The extent of the damage was not determined until later when the crop came out of dormancy. The cold weather reduced most farm activities during the month.

Temperatures gradually returned to normal by the end of **March**. Rain fell each week across the State. A late spring thaw and soggy fields reduced farm activity. Farmers were anxious to replant winterkilled wheat from the February freeze. Pruning and spraying were in progress in orchards and caneberry fields. Field prepartion, application of fertilizer and herbicides, and planting took place where soil conditions permitted. **April** temperatures were mostly above normal with showers across the State. Planting of small grains, vegetables, and other crops lagged behind normal due to wet fields. Winter kill became more evident as the winter wheat came out of dormancy.

Spring arrived in **May** with temperatures warmer the first two weeks of the month. The remainder of the month, temperatures were below normal. Rains were recorded across the State throughout the month. By the end of May, asparagus, field rhubarb, and leafy vegetables were harvested. Other activites included: planting, pruning and tying caneberries, fruit trees, grapes, and hop vines. **June** began with rain and cool temperatures. Rain continued in the West throughout the month, while it was dry in the East. Temperatures averaged above normal for the rest of the month. Cherries, strawberries, raspberries, asparagus, onions, green peas, and hay were being harvested. Control spraying for Russian wheat aphids took place. Spring seeding was completed by the end of the month. Livestock were in summer ranges and early lambs were marketed in June.

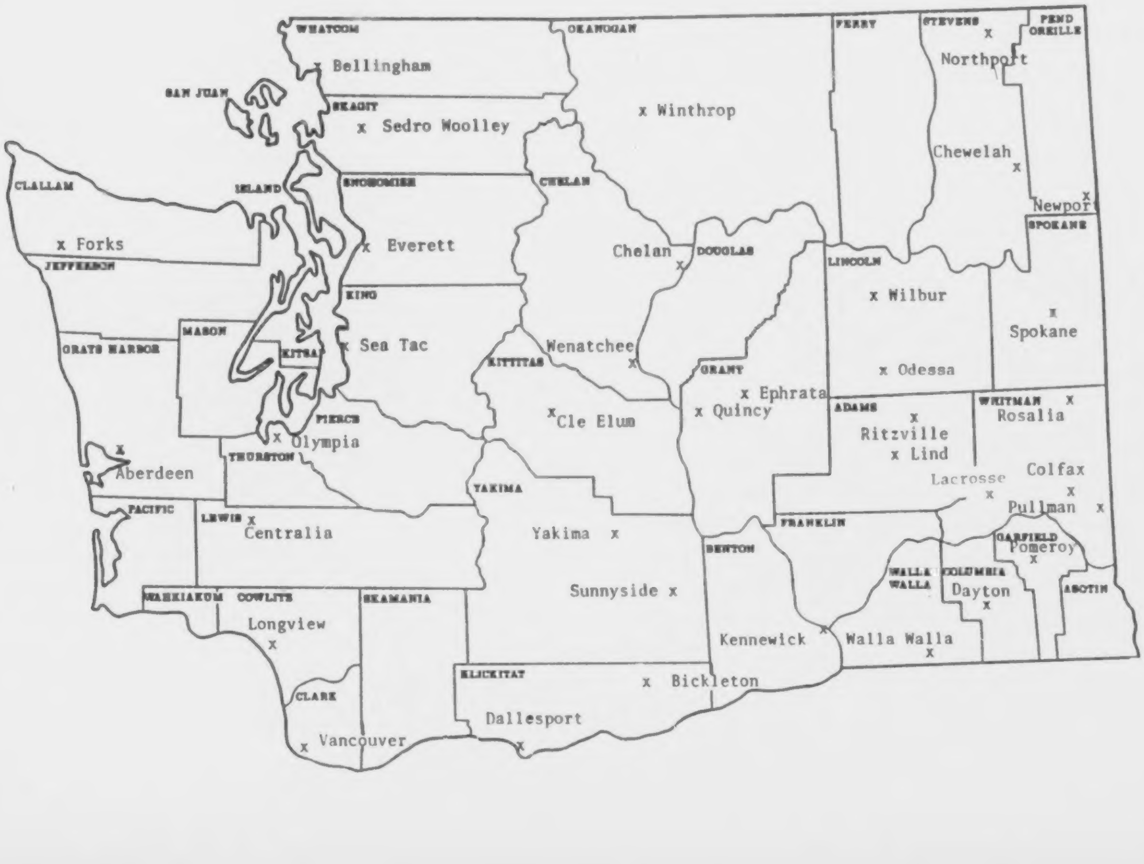
Slightly below normal temperatures and scattered showers were received across the State in **July**. Cherries, apricots, peaches, raspberries, and blueberries were harvested throughout July. The strawberry and asparagus harvests were completed. Other crops harvested in July were small grains, hay, peas, lentils, grass seed, early potatoes, mint, flower bulbs, sweet corn, onions, cauliflower, broccoli, leafy vegetables, and other summer vegetables. **August** temperatures were mostly below normal. A few showers fell until the final week when rain was received across the State. The small grain harvest was in full swing with progress slowed by rains at the end of the month. The hop and dry bean harvests began. The harvests of dry peas, lentils, grass seed, potatoes, corn silage, mint, and the third cutting of alfalfa continued. Early variety apple and pear harvests were underway and the harvest of peaches, nectarines, green peas, sweet corn, watermelon, and many vegetables continued.

September was mostly dry and warm. Scattered showers were received across the State with above normal temperatures. The small grain harvest was completed. Some of the wheat not harvested that received the August rain had sprout damage and some was plowed under. A wide variety of crops continued to be harvested during the month. The apple and pear harvests were in full swing. Carrot, cucumber, tomato, corn for grain, and grape harvests got underway. **October** temperatures averaged close to normal. Rains fell across the State at the end of the month. The rest of the month was mostly dry in the east with scattered showers in the west. The harvests of potatoes, corn silage, mint, grapes, apples, cranberries, and the third cutting of hay were winding down. By the end of October, 97% of the winter wheat for the 1990 crop was planted and 91% emerged. Russian wheat aphids were found in many areas and the population was increasing. Pruning activities were underway in caneberry fields. Orchard clean-up began with tree removal, fall planting, soil preparation, soil fumigation, rodent and weed control, and mowing cover crops. Pumpkins, squash, and carrots were harvested throughout the month.

Above normal temperatures and rain were received across the State in **November** as the 1989 crop year came to a close. Orchard clean-up pruning and tying caneberries, soil fumigation, applications of pesticides, rodenticides, and herbicides continued throughout the month. Carrots and potatoes were dug. Vegetable seeds and grain corn were harvested.

WEATHER STATIONS

The weather stations are shown in their relative location in the county map below. The stations presented are the same as used in Washington Agricultural Statistics 1988-89, where possible. Data are from the National Oceanic and Atmospheric Administration monthly summaries.


WHATCOM
Bellingham
SAN JUAN
SKAGIT
Sedro Woolley
OKANOGAN
Winthrop
FERRY
STEVENS
PEND OREILLE
Northport
Chewelah
Newport
CLALLAM
Forks
ISLAND
SNOHOMISH
Everett
CHELAN
Chelan
DOUGLAS
JEFFERSON
LINCOLN
Wilbur
SPOKANE
Spokane
KING
Sea Tac
MASON
KITSAP
GRAYS HARBOR
Wenatchee
KITTITAS
Odessa
GRANT
Ephrata
Quincy
Cle Elum
ADAMS
Ritzville
Lind
WHITMAN
Rosalia
PIERCE
Olympia
THURSTON
Aberdeen
Lacrosse
Colfax
Pullman
YAKIMA
PACIFIC
LEWIS
Centralia
Yakima
FRANKLIN
BENTON
GARFIELD
Pomeroy
WALLA WALLA
COLUMBIA
Dayton
ASOTIN
Sunnyside
WAHKIAKUM
COWLITZ
SKAMANIA
Longview
Kennewick
Walla Walla
KLICKITAT
Bickleton
CLARK
Dallesport
Vancouver

AVERAGE TEMPERATURES (F) FOR 1989, WASHINGTON

STATION DISTRICT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
WEST													
ABERDEEN	41.3	36.0	43.6	51.8	54.0	59.0	60.4	60.8	61.9	53.2	47.6	44.4	51.2
BELLINGHAM	38.8	33.9	42.5	52.0	54.2	61.2	62.1	62.0	59.3	51.2	45.2	41.1	50.3
CENTRALIA	41.6	35.2	44.1	53.9	56.4	63.2	63.8	65.0	62.7	53.2	47.2	42.4	52.4
EVERETT	41.7	33.9	44.2	52.6	56.2	63.1	63.0	64.0	60.4	52.4	47.3	42.8	51.8
FORKS	39.3	35.1	41.7	51.7	54.2	60.3	59.7	61.5	61.7	51.2	45.5	42.1	50.3
LONGVIEW	41.1	35.2	44.0	53.5	56.1	61.9	62.5	63.7	63.1	53.8	47.2	41.4	52.0
OLYMPIA	39.4	33.2	41.1	50.9	53.9	60.3	61.1	62.4	59.4	49.7	44.7	41.1	49.8
SEA TAC	40.5	35.9	43.7	53.4	56.0	63.2	64.5	65.3	64.1	53.1	47.0	42.9	52.5
SEDRO WOOLLEY	~~39.6~~	34.1	43.7	52.1	54.1	61.4	61.5	62.6	60.1	52.2	45.4	41.5	50.7
VANCOUVER	40.9	34.5	44.0	53.3	56.1	62.8	63.2	63.6	61.6	52.2	46.4	39.3	51.5
CENTRAL													
BICKLETON	32.4	23.2	36.4	48.1	51.9	62.1	65.4	63.9	61.4	48.5	40.8	33.1	47.3
CHELAN	30.6	25.5	38.3	52.3	58.7	69.7	72.3	71.1	64.5	51.7	41.8	32.9	50.8
CLE ELUM	32.4	23.8	36.8	48.6	53.0	61.9	64.1	64.0	57.8	NA	40.4	34.1	NA
DALLESPORT	40.5	30.4	44.5	56.7	60.6	68.9	70.9	71.1	65.9	54.6	46.9	36.8	54.0
KENNEWICK	39.4	26.2	44.8	56.3	60.6	71.3	73.8	72.5	65.9	54.2	47.0	35.3	53.9
SUNNYSIDE	38.2	28.6	NA	56.7	61.0	70.8	71.5	70.7	64.7	52.8	44.7	32.5	NA
WENATCHEE	31.9	26.9	40.3	54.2	61.9	68.4	74.9	73.4	66.9	53.3	43.3	34.6	52.5
WINTHROP	22.6	21.5	34.9	49.8	54.3	64.9	67.4	64.8	59.8	47.2	37.1	27.7	46.0
YAKIMA	33.7	26.4	40.0	52.0	56.2	65.8	68.6	66.9	61.0	48.8	41.7	31.4	49.4
NORTHEAST													
CHEWELAH	29.1	25.1	37.7	49.1	54.8	65.0	68.1	65.2	59.1	45.3	37.7	31.4	47.3
NEWPORT	29.7	22.2	36.9	48.4	53.6	64.1	68.0	65.1	59.9	46.1	38.3	32.3	47.1
NORTHPORT	27.8	23.3	38.2	50.8	56.2	65.7	70.4	67.0	60.9	46.0	37.0	31.7	47.9
SPOKANE	28.8	21.8	36.6	48.9	53.1	64.3	68.7	64.8	60.1	47.0	38.0	31.0	46.9
EAST CENTRAL													
EPHRATA	30.9	25.8	40.7	54.2	58.9	70.1	72.8	70.7	66.1	51.5	41.3	31.3	51.2
LIND	32.8	24.7	40.6	52.4	55.3	66.3	70.1	66.9	63.5	49.7	41.4	30.5	49.5
ODESSA	29.4	22.9	39.0	51.4	48.5	60.9	63.2	60.6	55.7	43.4	35.3	26.4	44.7
QUINCY	31.5	25.8	40.5	53.5	58.0	68.0	70.6	68.9	63.9	50.7	41.7	31.0	50.3
RITZVILLE	30.1	23.8	38.5	50.7	55.0	65.6	68.5	66.1	62.6	49.0	40.3	30.4	48.4
WILBUR	26.7	22.5	35.6	49.0	52.6	NA	65.9	63.3	59.9	46.4	38.7	28.7	NA
SOUTHEAST													
COLFAX	32.4	24.2	40.0	49.4	53.1	63.1	66.2	63.8	59.2	47.6	41.5	32.6	47.8
DAYTON	36.2	24.5	42.3	52.8	56.0	66.6	70.2	68.4	63.1	51.1	44.4	33.7	50.8
LA CROSSE	33.9	24.7	41.8	52.1	54.7	65.4	69.3	67.0	62.1	49.6	42.2	31.8	49.6
POMEROY	34.4	25.1	41.9	51.2	53.9	65.8	70.7	68.4	64.0	51.8	45.6	35.8	50.7
PULLMAN	30.0	23.4	38.0	48.8	52.3	60.6	65.3	63.3	60.1	48.0	40.8	32.4	46.9
ROSALIA	29.7	23.0	37.9	49.0	52.6	62.8	66.1	NA	60.1	48.3	39.7	31.9	NA
WALLA WALLA	36.9	24.1	41.6	54.0	57.8	68.1	73.3	71.2	66.2	53.8	45.3	33.9	52.2

AVERAGE TEMPERATURE DEPARTURES FROM NORMAL(F), 1989, WASHINGTON

STATION DISTRICT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
WEST													
ABERDEEN	1.4	-7.0	-0.4	3.9	1.1	1.7	-0.1	-0.1	2.6	0.4	2.2	2.7	0.7
BELLINGHAM	2.2	-6.9	-0.1	4.4	0.7	2.8	0.0	0.1	1.9	1.0	2.1	1.9	0.8
CENTRALIA	2.6	-7.4	-0.5	4.5	1.0	2.8	-1.0	0.7	2.5	0.9	2.8	1.7	0.9
EVERETT	3.3	-8.1	0.4	4.0	1.9	3.9	0.1	1.5	2.2	1.0	3.3	2.1	1.3
FORKS	0.5	-6.7	-0.7	5.3	2.5	4.1	-0.5	1.0	3.5	-0.4	1.4	1.5	1.0
LONGVIEW	2.3	-7.4	-0.7	4.4	1.4	2.2	-1.6	-0.5	2.3	0.6	2.2	0.7	0.5
OLYMPIA	2.2	-7.6	-1.6	3.6	0.8	1.9	-1.9	-0.1	1.3	-0.4	2.1	2.1	0.2
SEA TAC	1.4	-6.9	-0.5	4.7	1.0	3.0	-0.3	1.2	4.1	0.6	2.2	1.9	1.0
SEDRO WOOLLEY	1.9	-7.6	0.0	3.5	-0.3	2.4	-0.8	0.2	1.6	1.0	1.6	1.4	0.4
VANCOUVER	2.7	-7.9	-1.1	3.6	0.3	1.8	-2.5	-1.7	0.1	-1.0	1.6	-1.0	-0.4
CENTRAL													
BICKLETON	4.2	-10.6	-1.0	4.0	0.1	3.0	-1.8	-2.2	2.0	0.0	4.5	1.8	0.3
CHELAN	4.2	-7.6	-2.0	2.6	-0.2	3.5	-0.4	-0.4	2.1	1.3	4.0	2.7	0.8
CLE ELUM	6.1	-9.1	-0.5	4.0	0.5	2.6	-1.9	-0.6	0.9	NA	4.7	4.2	NA
DALLESPORT	7.1	-9.7	-0.7	4.5	0.5	2.1	-2.2	-1.1	0.4	0.6	4.7	0.3	0.5
KENNEWICK	6.3	-13.8	-1.2	2.8	-1.1	2.4	-1.2	-0.5	1.3	0.9	5.2	-0.7	0.0
SUNNYSIDE	7.0	-9.8	NA	5.0	1.2	3.9	-0.7	0.3	1.6	0.7	4.3	-1.5	NA
WENATCHEE	4.2	-8.1	-2.4	2.5	1.7	1.0	1.1	1.1	3.2	2.1	4.5	3.0	1.2
WINTHROP	4.2	-5.4	-0.1	4.0	-0.3	3.6	0.0	-1.4	1.9	1.0	5.1	5.7	1.5
YAKIMA	5.5	-9.7	-1.9	2.8	-1.1	1.3	-1.8	-1.7	0.1	-1.1	3.5	-0.1	-0.4
NORTHEAST													
CHEWELAH	5.4	-5.3	0.6	3.1	0.7	4.4	2.1	0.3	2.3	-0.5	3.3	3.7	1.7
NEWPORT	5.2	-8.6	1.3	3.9	0.7	4.2	2.2	0.8	3.8	0.9	4.7	4.6	2.0
NORTHPORT	2.2	-8.7	-0.7	2.2	-1.3	1.7	0.6	-1.1	1.2	-2.1	1.5	2.8	-0.1
SPOKANE	3.1	-10.6	-1.0	3.1	-1.2	2.6	-1.0	-3.3	0.7	-0.6	3.1	2.0	-0.3
EAST CENTRAL													
EPHRATA	4.7	-8.5	-1.1	3.4	-1.4	2.0	-2.8	-2.9	1.2	-0.2	3.9	1.5	0.0
LIND	4.4	-11.3	-0.8	4.0	-1.5	2.1	-1.2	-2.6	1.6	-0.7	3.6	-1.1	-0.3
ODESSA	2.0	-12.0	-1.7	2.9	-8.2	-3.4	-7.7	-8.6	-5.4	-6.0	-1.8	-4.3	-4.5
QUINCY	6.0	-8.2	-0.7	3.5	-0.7	2.4	-1.0	-1.3	1.5	0.6	5.0	1.9	0.8
RITZVILLE	3.2	-10.2	-1.0	3.9	0.2	3.1	-1.4	-2.4	1.7	-0.4	3.8	0.1	0.1
WILBUR	1.7	-9.3	-2.2	3.0	-1.6	NA	-1.9	-3.1	1.1	-1.2	3.4	0.2	NA
SOUTHEAST													
COLFAX	2.8	-11.7	0.2	2.7	-1.1	2.2	-1.0	-2.2	0.6	-1.0	3.4	-0.3	-0.5
DAYTON	4.0	-13.7	-0.2	4.1	-0.3	3.2	-0.7	-0.9	1.4	-0.3	4.0	-1.6	-0.1
LA CROSSE	4.0	-12.3	0.5	3.9	-0.9	2.4	-0.9	-1.4	1.3	-0.4	3.7	-1.3	-0.1
POMEROY	2.4	-13.1	0.0	2.2	-2.5	2.1	-0.2	-1.0	1.9	0.3	5.5	1.0	-0.1
PULLMAN	1.8	-10.9	0.0	3.7	-0.3	1.5	-0.6	-2.2	1.3	-0.9	3.7	0.7	-0.2
ROSALIA	2.4	-10.6	0.0	3.8	-0.2	3.5	-0.2	NA	2.1	0.5	3.4	1.3	NA
WALLA WALLA	3.6	-15.6	-3.2	2.6	-1.3	1.2	-1.8	-2.2	1.0	0.0	3.5	-2.4	-1.2

PRECIPITATION FOR 1989, WASHINGTON

STATION DISTRICT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
WEST													
ABERDEEN	10.38	6.91	10.19	4.37	3.27	1.71	2.64	1.33	0.68	7.15	13.71	8.31	70.65
BELLINGHAM	5.56	1.83	4.91	2.63	3.05	0.84	1.04	2.57	0.25	2.87	10.09	4.02	39.66
CENTRALIA	4.56	3.37	7.80	2.00	1.87	1.26	0.77	0.58	0.42	2.96	7.13	5.39	38.11
EVERETT	4.58	2.44	5.41	1.21	2.83	1.43	0.68	1.82	0.31	3.66	5.27	3.07	32.71
FORKS	16.26	7.82	14.93	7.50	3.77	3.05	3.33	4.05	0.14	11.72	16.73	9.63	98.93
LONGVIEW	6.04	2.82	7.70	2.21	2.21	1.86	0.77	1.48	0.27	2.04	8.35	3.25	39.00
OLYMPIA	5.41	4.19	7.88	2.49	1.99	1.47	0.70	0.55	0.49	2.42	8.50	5.66	41.75
SEA TAC	2.78	3.43	5.79	2.80	2.78	1.14	0.64	0.89	0.54	2.98	6.13	4.79	34.69
SEDRO WOOLLEY	8.00	1.72	7.66	2.56	3.75	1.09	0.98	1.69	0.14	3.67	11.72	4.48	47.46
VANCOUVER	4.01	2.88	7.16	2.32	2.18	0.75	1.11	1.71	0.92	2.60	3.64	3.23	32.51
CENTRAL													
BICKLETON	0.97	1.16	2.29	1.66	0.86	0.07	0.14	0.99	0.07	0.83	1.29	0.46	10.79
CHELAN	0.80	1.37	1.08	0.78	1.58	0.11	0.06	0.20	0.00	1.16	0.72	0.21	8.07
CLE ELUM	4.53	1.31	1.65	1.21	0.79	0.35	0.31	0.24	0.29	NA	3.41	1.80	NA
DALLESPORT	1.84	1.19	2.34	0.84	0.41	0.45	0.15	0.76	0.11	0.81	0.75	1.26	10.91
KENNEWICK	0.90	1.20	1.68	0.62	0.48	0.06	0.00	0.37	0.00	0.61	1.15	0.38	7.45
SUNNYSIDE	0.18	0.11	NA	0.87	0.38	0.03	0.05	0.28	0.02	0.48	0.61	0.32	NA
WENATCHEE	0.47	1.40	1.05	1.06	0.40	0.05	0.02	0.63	0.00	0.79	0.69	0.96	7.52
WINTHROP	0.63	1.67	1.89	1.24	1.88	0.34	0.72	0.44	0.02	1.93	0.72	0.67	12.15
YAKIMA	0.19	1.29	1.71	0.85	0.63	0.05	0.07	0.41	0.09	0.67	0.72	0.21	6.89
NORTHEAST													
CHEWELAH	1.08	1.40	3.83	1.61	2.44	0.85	0.25	2.21	0.17	1.50	2.21	1.26	18.81
NEWPORT	2.49	1.61	3.24	2.24	2.52	0.94	0.41	3.41	0.46	1.88	3.24	1.81	24.25
NORTHPORT	0.79	1.38	2.37	1.95	2.87	1.96	0.83	2.30	0.22	1.13	2.19	0.81	18.80
SPOKANE	0.82	1.34	2.87	0.72	2.17	0.41	0.40	1.61	0.18	1.58	1.66	0.95	14.71
EAST CENTRAL													
EPHRATA	0.27	1.58	1.13	0.91	0.91	0.00	0.02	0.28	0.00	0.61	1.22	0.08	7.01
LIND	0.38	0.87	2.15	0.90	1.50	0.07	0.01	0.94	0.01	0.69	1.08	0.53	9.13
ODESSA	0.65	1.12	2.09	1.53	1.35	0.02	0.66	0.41	0.00	0.64	1.34	0.43	10.24
QUINCY	0.35	0.61	1.04	1.37	0.88	0.02	0.00	0.65	0.00	0.81	1.65	0.73	8.11
RITZVILLE	0.77	1.02	2.56	0.80	1.41	0.06	0.08	0.80	0.00	1.00	1.19	0.54	10.23
WILBUR	0.62	1.18	1.88	0.76	3.08	NA	0.59	1.69	0.00	0.43	1.05	0.33	NA
SOUTHEAST													
COLFAX	2.73	1.43	3.52	0.96	1.88	0.51	0.16	3.14	0.18	1.07	1.78	1.07	18.43
DAYTON	4.40	1.40	3.72	0.84	1.80	0.38	0.05	1.44	0.32	1.15	1.97	1.47	18.94
LA CROSSE	2.20	2.00	3.95	0.72	1.29	0.28	0.01	1.17	0.09	0.90	1.42	0.58	14.61
POMEROY	4.45	1.88	2.56	0.89	1.72	0.36	0.11	2.02	0.31	0.68	2.09	0.87	17.94
PULLMAN	3.27	1.37	3.45	0.77	1.93	0.86	0.13	3.81	0.48	1.40	2.10	1.46	21.03
ROSALIA	2.16	1.38	4.28	0.51	2.71	0.53	0.44	NA	0.18	1.23	2.18	1.30	NA
WALLA WALLA	3.16	1.34	3.71	1.76	3.05	0.25	0.02	1.49	0.39	1.24	1.78	1.69	19.88

PRECIPITATION, DEPARTURE FROM AVERAGE, 1989, WASHINGTON

STATION DISTRICT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
WEST													
ABERDEEN	-2.72	-2.84	1.13	-1.14	-0.08	-0.79	1.37	-0.79	-2.98	-0.14	2.75	-5.46	-11.69
BELLINGHAM	0.77	-1.68	1.94	0.20	1.04	-0.87	-0.07	1.16	-1.80	-0.62	5.45	-1.12	4.40
CENTRALIA	-2.82	-1.61	3.07	-1.01	-0.16	-0.52	-0.07	-0.88	-1.80	-1.17	0.69	-2.32	-8.60
EVERETT	-0.19	-1.04	1.89	-1.37	0.59	-0.63	-0.40	0.27	-1.75	0.47	0.79	-2.15	-3.52
FORKS	-1.73	-6.60	2.08	-0.45	-1.07	0.00	1.04	1.27	-5.32	0.25	0.81	-10.41	-20.13
LONGVIEW	-0.92	-1.59	3.22	-1.09	-0.15	-0.13	-0.08	-0.10	-1.94	-2.03	2.07	-4.40	-7.14
OLYMPIA	-3.09	-1.58	3.03	-0.64	0.14	0.03	-0.06	-0.79	-1.87	-2.26	0.92	-3.04	-9.21
SEA TAC	-3.26	-0.79	2.20	0.40	1.20	-0.24	-0.10	-0.38	-1.48	-0.45	0.53	-1.54	-3.91
SEDRO WOOLLEY	1.97	-2.92	3.67	-1.00	1.12	-1.20	-0.54	-0.29	-2.95	-0.68	5.95	-2.11	1.02
VANCOUVER	-2.70	-1.46	3.35	-0.29	-0.06	-0.87	0.54	0.49	-0.96	-0.86	-1.97	-3.77	-8.56
CENTRAL													
BICKLETON	-1.63	-0.40	1.14	0.86	0.06	-0.60	-0.18	0.63	-0.38	0.01	-0.82	-2.08	-3.39
CHELAN	-0.59	0.34	0.23	-0.06	0.96	-0.49	-0.24	-0.35	-0.52	0.43	-0.71	-1.50	-2.50
CLE ELUM	0.39	-1.15	-0.26	-0.06	0.02	-0.35	0.04	-0.35	-0.52	NA	-0.10	-2.79	NA
DALLESPORT	-1.04	-0.29	1.24	0.34	-0.04	0.14	0.07	0.44	-0.27	-0.12	-1.28	-1.45	-2.26
KENNEWICK	-0.27	0.54	1.14	0.16	-0.11	-0.38	-0.19	-0.03	-0.37	0.05	0.16	-0.80	-0.10
SUNNYSIDE	-0.85	-0.47	NA	0.36	-0.15	-0.42	-0.15	-0.02	-0.35	-0.01	-0.22	-0.55	NA
WENATCHEE	-0.90	0.55	0.45	0.44	-0.15	-0.48	-0.13	-0.03	-0.35	0.22	-0.46	-0.49	-1.33
WINTHROP	-1.72	0.27	1.00	0.48	1.05	-0.49	0.14	-0.39	-0.62	1.11	-1.06	-2.23	-2.46
YAKIMA	-1.25	0.55	1.06	0.35	0.15	-0.55	-0.07	0.05	-0.24	0.20	-0.25	-1.09	-1.09
NORTHEAST													
CHEWELAH	-1.48	-0.36	2.19	0.16	0.47	-0.51	-0.55	1.09	-0.87	0.09	-0.25	-1.86	-1.88
NEWPORT	-1.48	-1.04	1.07	0.37	0.36	-0.82	-0.52	2.12	-0.86	-0.19	-0.31	4.20	2.90
NORTHPORT	-1.54	-0.26	1.02	0.67	1.00	0.04	-0.15	0.94	-0.94	-0.28	0.08	-1.84	-1.26
SPOKANE	-1.65	-0.27	1.51	-0.36	0.79	-0.82	-0.10	0.87	-0.53	0.50	-0.40	-1.54	-2.00
EAST CENTRAL													
EPHRATA	-0.72	0.91	0.51	0.38	0.37	-0.53	-0.23	0.00	-0.32	0.12	0.30	-1.06	-0.27
LIND	-0.73	0.04	1.44	0.22	0.69	-0.58	-0.26	0.52	-0.48	-0.06	-0.10	1.31	2.01
ODESSA	-0.64	0.22	1.26	0.88	0.45	-0.55	0.35	0.03	-0.51	-0.02	0.03	-1.06	0.44
QUINCY	-0.64	-0.14	0.38	0.75	0.30	-0.49	-0.26	0.29	-0.37	0.29	0.61	-0.46	0.26
RITZVILLE	-0.65	-0.05	1.65	-0.02	0.53	-0.70	-0.26	0.34	-0.58	0.11	-0.28	-1.19	-1.10
WILBUR	-0.82	0.16	0.94	-0.11	1.90	NA	0.14	0.99	-0.70	-0.44	-0.53	-1.35	NA
SOUTHEAST													
COLFAX	-0.01	-0.42	1.71	-0.62	0.42	-0.84	-0.34	2.31	-0.76	-0.38	-0.47	-1.97	-1.37
DAYTON	1.80	-0.20	1.89	-0.63	0.47	-0.81	-0.40	0.68	-0.57	-0.35	-0.25	2.79	4.42
LA CROSSE	0.28	0.74	2.83	-0.18	0.32	-0.62	-0.38	0.37	-0.31	-0.12	-0.22	-1.39	1.12
POMEROY	2.31	0.52	1.11	-0.29	0.45	-0.71	-0.31	1.26	-0.42	-0.50	0.38	-2.20	1.60
PULLMAN	0.38	-0.72	1.49	-0.81	0.41	-0.63	-0.40	2.86	-0.51	-0.21	-0.54	-1.61	-0.29
ROSALIA	-0.19	-0.18	2.85	-0.79	1.23	-0.79	-0.07	NA	-0.62	-0.11	0.17	-1.12	NA
WALLA WALLA	0.74	-0.25	2.05	0.17	1.49	-0.79	-0.40	0.67	-0.56	-0.30	-0.51	-0.79	1.52

Prices Received by Farmers, Washington

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Crop Year or Season Average 1/
							Dollars Per Bushel						
All Wheat													
1985							3.30	3.24	3.30	3.38	3.48	3.50	3.41
1986	3.48	3.43	3.53	3.65	3.54	2.96	2.59	2.38	2.40	2.44	2.53	2.58	2.51
1987	2.62	2.74	2.83	2.81	2.78	2.68	2.53	2.56	2.63	2.76	2.72	2.74	2.82
1988	2.93	2.91	2.88	2.93	3.12	3.53	3.79	3.86	4.06	4.15	4.30	4.43	4.19
1989	4.56	4.57	4.39	4.42	4.33	4.14	4.26	4.26	4.21	4.19	3.94	4.28	4.05
1990	4.27	3.73	3.58	3.47	3.39	3.27							
							Dollars Per Bushel						
Barley													
1985							1.97	1.86	1.81	1.90	2.01	2.14	1.95
1986	2.11	1.95	1.91	1.90	1.91	1.58	1.45	1.49	1.66	1.66	1.68	1.61	1.67
1987	1.73	1.79	1.85	1.88	1.90	2.04	1.92	1.82	1.85	1.84	1.89	1.92	1.87
1988	1.91	1.84	1.77	1.83	2.00	2.46	2.43	2.51	2.40	2.36	2.44	2.37	2.45
1989	2.41	2.41	2.50	2.52	2.58	2.46	2.35	2.36	2.15	2.05	2.34	2.47	2.30
1990	2.49	2.34	2.41	2.42	2.73	2.51							
							Dollars Per Cwt.						
Potatoes													
1985								3.20	3.00	3.10	3.30	3.60	3.45
1986	3.70	3.70	3.65	3.80	3.65	4.25	4.25	5.20	3.90	3.75	4.20	4.45	4.30
1987	4.50	4.35	4.30	4.60	4.65	5.00	4.10	4.05	3.30	3.40	3.30	3.80	3.65
1988	3.85	3.60	3.90	3.85	3.90	3.80	4.00	5.35	3.75	3.60	4.75	4.50	4.50
1989	4.65	4.85	5.25	4.95	5.65	5.40	4.40	6.50	4.35	4.10	4.60	4.95	5.00
1990	5.00	5.55	6.05	6.20	6.60	6.95	5.45						
							Dollars Per Ton						
All Hay													
1985						90.00	83.00	77.00	73.00	80.00	78.00	87.00	84.50
1986	92.00	95.00	95.00	94.00	84.00	81.00	68.00	68.00	60.00	60.00	58.00	53.00	60.00
1987	52.00	48.00	45.00	40.00	57.00	57.00	54.00	58.00	52.00	52.00	54.00	51.00	54.50
1988	55.00	55.00	55.00	54.00	66.00	73.00	76.00	72.00	75.00	80.00	76.00	77.00	78.50
1989	83.00	83.00	87.00	89.00	95.00	88.00	87.00	82.00	86.00	90.00	87.00	92.00	90.00
1990	96.00	94.00	95.00	104.00	103.00								
							Cents Per Pound						
Apples (Fresh Use)													
1985									17.0	18.1	19.2	18.4	20.4
1986	18.7	18.9	18.9	19.3	24.6	25.5	28.5	31.0	18.9	16.2	15.5	15.3	18.6
1987	18.1	19.1	18.3	19.8	23.4	26.2	26.1	13.2	13.6	7.8	6.9	7.5	10.4
1988	9.2	11.2	10.6	8.7	9.9	10.1	23.1	30.8	25.2	17.8	16.7	16.5	16.1
1989	18.0	18.1	16.3	13.8	12.5	9.6	10.8	14.8	16.3	11.4	8.9	9.1	11.0
1990	9.8	10.7	11.0	11.2	11.4	12.3	18.5	-					

1/ Crop year begins with month to right of heavy line. Data for 1989 are preliminary monthly prices.

- Not Available.

Prices Received by Farmers, Washington (continued)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Average
						Dollars Per Cwt.							
Cows 1/													
1985	37.50	39.80	39.90	39.50	38.00	36.90	33.90	35.40	33.90	31.30	31.20	31.10	35.40
1986	32.60	35.00	36.50	32.60	34.10	33.70	35.50	35.30	35.30	34.60	33.80	34.60	34.30
1987	38.40	41.40	43.10	43.20	43.00	43.70	43.50	43.90	44.30	42.70	41.00	43.00	42.70
1988	44.80	46.70	48.10	47.50	48.40	42.80	45.10	46.50	45.00	42.40	42.00	42.90	45.30
1989	45.20	47.20	44.60	44.20	46.30	44.30	46.20	47.40	48.20	45.40	44.30	44.20	45.70
Steers and Heifers													
1985	63.10	63.30	60.00	59.10	56.10	57.30	52.10	49.90	50.90	51.90	58.30	61.70	56.80
1986	58.20	54.20	54.30	52.00	53.90	52.60	55.50	56.90	57.50	56.80	59.60	59.30	55.90
1987	59.30	61.60	61.60	65.80	67.00	66.20	62.50	62.50	62.90	66.00	63.80	63.90	63.60
1988	64.70	68.10	69.60	70.40	72.30	68.00	63.50	65.60	67.20	69.10	70.10	71.40	68.30
1989	70.70	75.00	74.40	73.70	73.20	70.90	69.90	73.40	68.20	70.00	70.90	67.80	71.30
Calves													
1985	56.60	59.80	58.60	60.90	61.90	54.10	48.60	47.20	47.00	53.70	49.10	46.60	53.70
1986	49.20	53.60	53.60	50.00	50.60	49.50	49.90	52.00	55.10	54.90	54.90	57.90	52.90
1987	64.00	66.80	71.10	71.60	74.60	74.40	74.90	75.00	73.90	81.30	79.60	80.30	76.00
1988	81.10	86.90	88.60	89.00	94.60	89.20	89.70	82.20	81.20	81.80	77.90	80.90	84.80
1989	82.70	83.40	81.40	81.40	79.90	89.70	83.80	82.40	83.70	82.80	79.30	79.30	82.30
Milk Sold to Plants, All													
1985	13.50	13.20	12.90	12.60	12.40	12.00	11.90	11.90	11.90	12.00	12.10	12.10	12.40
1986	12.00	12.00	11.80	11.80	11.80	11.70	11.80	12.00	12.30	12.50	12.70	12.80	12.10
1987	12.80	12.50	12.20	12.00	11.80	11.90	11.90	12.00	12.30	12.50	12.60	12.50	12.20
1988	12.40	12.10	11.80	11.50	11.30	11.20	11.30	11.60	12.20	12.60	13.20	13.30	12.00
1989	13.30	13.10	12.50	12.20	12.00	12.10	12.40	12.90	13.60	14.40	15.20	15.70	13.30
						Dollars Per Head							
Milk Cows 2/													
1985	980	-	-	1,010	-	-	960	-	-	900	-	-	965
1986	870	-	-	870	-	-	920	-	-	950	-	-	905
1987	1,020	-	-	1,080	-	-	1,090	-	-	1,100	-	-	1,070
1988	1,100	-	-	1,210	-	-	1,190	-	-	1,140	-	-	1,160
1989	1,140	-	-	1,150	-	-	1,150	-	-	1,180	-	-	1,160

1/ Beef cows sold for slaughter and herd replacement, and cull dairy cows sold for slaughter.

2/ Dairy cows sold for dairy herd replacement. Prices estimated quarterly beginning January 1982.

Prices Paid by Farmers, Washington

Commodity/ Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
	Dollars Per Ton											
Chick Starter												
1985	205	210	210	210	215	215	196	186	184	178	200	200
1986 1/	183	205	-	-	-	-	-	-	-	-	-	-
1986 2/	184	183	-	184	-	-	185	-	-	197	-	-
1987 2/	176	-	-	164	-	-	221	-	-	172	-	-
1988 2/	184	-	-	183	-	-	255	-	-	232	-	-
1989 2/	219	-	-	222	-	-	217	-	-	217	-	-
Broiler Grower												
1985	200	200	200	200	215	210	197	186	184	176	176	180
1986 1/	179	191	-	-	-	-	-	-	-	-	-	-
1986 2/	190	186	-	184	-	-	194	-	-	184	-	-
1987 2/	181	-	-	193	-	-	221	-	-	171	-	-
1988 2/	179	-	-	174	-	-	234	-	-	225	-	-
1989 2/	224	-	-	238	-	-	230	-	-	233	-	-
Laying Feed												
1985	205	200	205	200	205	205	199	193	189	195	186	188
1986 1/	186	198	-	-	-	-	-	-	-	-	-	-
1986 2/	171	167	-	163	-	-	170	-	-	159	-	-
1987 2/	155	-	-	167	-	-	180	-	-	153	-	-
1988 2/	151	-	-	155	-	-	227	-	-	203	-	-
1989 2/	195	-	-	200	-	-	185	-	-	174	-	-
Dairy Feed 14% Protein												
1985	170	168	169	166	168	169	170	159	161	167	155	160
1986 1/	160	159	-	-	-	-	-	-	-	-	-	-
1986 2/	152	152	-	149	-	-	144	-	-	136	-	-
1987 2/	144	-	-	143	-	-	144	-	-	136	-	-
1988 2/	141	-	-	150	-	-	163	-	-	172	-	-
1989 2/	171	-	-	171	-	-	166	-	-	161	-	-
Dairy Feed 16% Protein												
1985	181	171	174	173	189	182	190	171	170	172	165	164
1986 1/	164	169	-	-	-	-	-	-	-	-	-	-
1986 2/	161	161	-	157	-	-	155	-	-	144	-	-
1987 2/	147	-	-	142	-	-	149	-	-	146	-	-
1988 2/	152	-	-	153	-	-	188	-	-	192	-	-
1989 2/	187	-	-	182	-	-	172	-	-	171	-	-

Prices Paid by Farmers, Washington (continued)

Commodity/ Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
						Dollars Per Ton						
Soybean Meal												
1985	340	360	350	370	360	370	360	330	340	340	340	360
1986 1/	350	320	-	-	-	-	-	-	-	-	-	-
1986 2/	314	336	-	328	-	-	302	-	-	340	-	-
1987 2/	338	-	-	330	-	-	344	-	-	334	-	-
1988 2/	370	-	-	380	-	-	430	-	-	428	-	-
1989 2/	416	-	-	414	-	-	460	-	-	436	-	-
Cotton Seed Meal												
1985	440	480	480	480	490	490	480	450	450	460	450	420
1986 1/	420	440	-	-	-	-	-	-	-	-	-	-
1986 2/	248	266	-	262	-	-	266	-	-	274	-	
1987 2/	278	-	-	278	-	-	286	-	-	300	-	-
1988 2/	306	-	-	310	-	-	346	-	-	334	-	-
1989 2/	342	-	-	362	-	-	338	-	-	348	-	-
Gasoline, Unleaded Service Station						Dollars Per Gallon						
1985	1.26	1.23	1.21	1.24	1.23	1.27	1.26	1.25	1.25	1.26	1.27	1.26
1986 1/	1.25	1.21	-	-	-	-	-	-	-	-	-	-
1986 2/	1.22	1.15	-	1.00	-	-	.95	-	-	.89	-	-
1987 2/	.86	-	-	.90	-	-	.97	-	-	1.02	-	-
1988 2/	.95	-	-	.95	-	-	.98	-	-	.96	-	-
1989 2/	.91	-	-	1.06	-	-	1.12	-	-	1.06	-	-
Gasoline, Regular Bulk Delivery												
1985	1.20	1.16	1.16	1.18	1.19	1.21	1.20	1.19	1.20	1.20	1.20	1.19
1986 1/	1.20	1.14	-	-	-	-	-	-	-	-	-	-
1986 2/	1.13	1.06	-	.89	-	-	.87	-	-	.80	-	-
1987 2/	.81	-	-	.89	-	-	.90	-	-	.96	-	-
1988 2/	.89	-	-	.90	-	-	.94	-	-	.93	-	-
1989 2/	.87	-	-	1.06	-	-	1.09	-	-	1.04	-	-
Diesel Fuel												
1985	.92	.91	.90	.91	.93	.92	.91	.90	.89	.90	.94	.97
1986 1/	.97	.89	-	-	-	-	-	-	-	-	-	-
1986 2/	.97	.86	-	.63	-	-	.54	-	-	.59	-	-
1987 2/	.64	-	-	.60	-	-	.69	-	-	.81	-	-
1988 2/	.72	-	-	.74	-	-	.73	-	-	.68	-	-
1989 2/	.66	-	-	.88	-	-	.74	-	-	.87	-	-

1/ State estimates were discontinued in March, 1986.

2/ Pacific Regional estimates (California, Oregon, and Washington) are made on a quarterly basis.

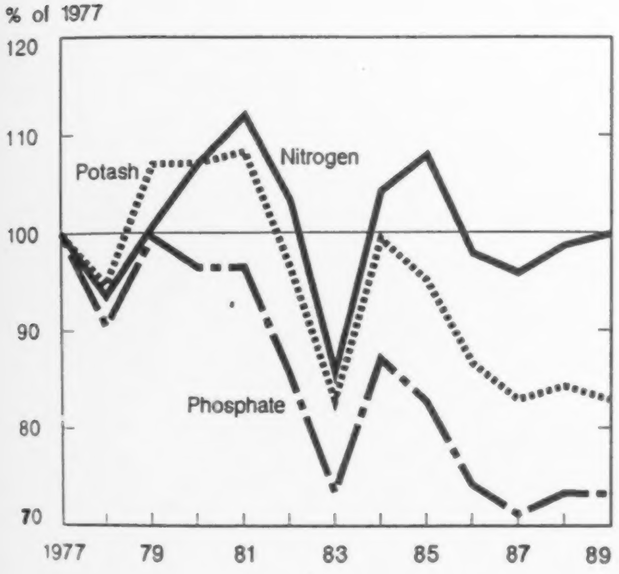
Prices Paid by Farmers, Northwest Region 1/

Item	Month	1985	1986	1987	1988	1989
		Dollars Per Ton				
Anhydrous Ammonia	April 2/	363	344	306	308	309
	May	362	-	-	-	-
	October	357	306	291	295	298
	December	359	-	-	-	-
Nitrogen Solutions, 32%	April 2/	192	170	155	160	184
	May	190	-	-	-	-
	October	195	165	152	161	182
	December	194	-	-	-	-
Superphosphate, 44-46%	April 2/	232	200	210	222	225
	May	232	-	-	-	-
	October	229	200	216	223	232
	December	227	-	-	-	-

1/ Northwest Region includes Idaho, Oregon, and Washington.
2/ Data for 1985 published in March.

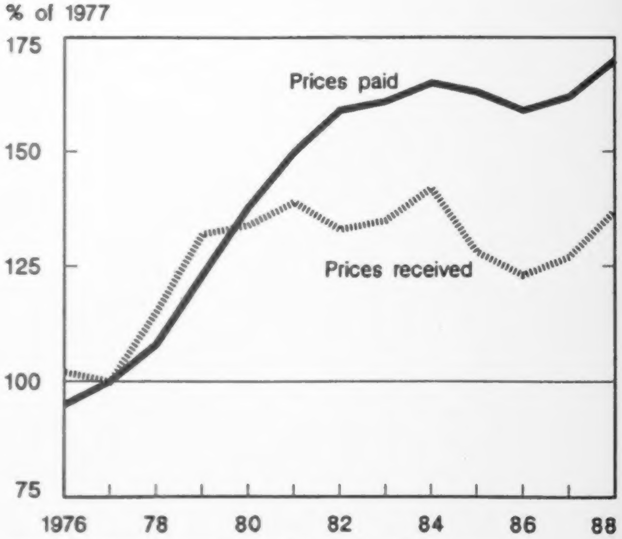
Farm Fertilizer Use, U.S.

Fertilizer usage was mixed in 1988. More Nitrogen was applied, but the amounts of Potash and Phosphate declined.



Prices Received and Paid by Farmers

Drought in major crop-producing regions contributed to price increases of over 30 percent for wheat, corn, and soybeans. Prices paid by farmers rose 7 percent in 1988, while the prices they received for all farm products rose 9 percent.



Prices paid includes commodities, services, interest, taxes, and wage rates.

Index of Prices Received and Paid by Farmers, United States

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Prices Received						1977=100							
	All Farm Products												
1986	124	122	122	121	123	122	125	125	123	123	124	120	123
1987	121	122	122	125	129	130	128	126	128	129	131	127	126
1988	131	130	130	131	135	139	142	145	145	142	144	145	138
1989	150	149	150	148	149	148	147	145	143	145	147	149	149
	All Crops												
1986	113	111	112	114	115	109	106	100	98	100	102	99	107
1987	100	99	101	102	109	109	108	101	105	110	118	112	106
1988	115	110	112	114	118	130	137	138	136	131	137	136	127
1989	141	139	138	141	142	138	137	128	126	127	128	127	134
	All Livestock and Products												
1986	135	133	132	127	131	134	143	148	146	145	145	141	138
1987	141	144	142	147	148	149	148	150	152	147	143	141	146
1988	146	149	148	148	151	147	147	152	153	152	151	154	150
1989	158	159	161	155	156	157	157	161	160	162	165	169	160
Prices Paid 1/													
	Commodities, Services, Interest, Taxes, and Wage Rates 4/												
1986	161	160	-	159	-	-	159	-	-	158	-	-	159
1987	158	-	-	161	-	-	163	-	-	164	-	-	162
1988	165	-	-	168	-	-	171	-	-	173	-	-	169
1989	175	-	-	177	-	-	178	-	-	178	-	-	177
	Items Used for Production 4/												
1986	148	147	-	143	-	-	143	-	-	142	-	-	144
1987	143	-	-	147	-	-	148	-	-	150	-	-	147
1988	152	-	-	155	-	-	159	-	-	162	-	-	157
1989	164	-	-	166	-	-	166	-	-	165	-	-	165
	Interest 2/*				**Taxes 3/***			**Farm Services & Cash Rent***					
1986		211				138				145			
1987		189				144				147			
1988		182				148				148			
1989		177				152				158			
	Wage Rates 4/												
1986	149	150	-	164	-	-	166	-	-	158	-	-	159
1987	158	-	-	174	-	-	177	-	-	171	-	-	166
1988	161	-	-	174	-	-	177	-	-	171	-	-	171
1989	186	-	-	186	-	-	189	-	-	179	-	-	185
	Production Items, Interest, Taxes, and Wage Rates												
1986	152	152	-	150	-	-	150	-	-	148	-	-	150
1987	147	-	-	152	-	-	153	-	-	154	-	-	151
1988	155	-	-	158	-	-	162	-	-	163	-	-	160
1989	166	-	-	167	-	-	168	-	-	166	-	-	167
Ratio of Prices Received to Prices Paid 4/													
1986	78	77	76	76	77	76	79	79	77	78	78	76	77
1987	77	77	77	78	80	81	79	77	79	79	80	77	78
1988	79	79	79	78	80	83	83	85	85	82	83	84	82
1989	86	85	86	84	84	84	83	81	81	81	83	84	84

* Information collected yearly but is used as a component of monthly index.

1/ Estimates made on a quarterly basis starting with March 1986.

2/ Interest on indebtedness secured by farm real estate.

3/ Taxes on farm real estate.

4/ Ratio of index of prices received by farmers to index of prices paid, interest, taxes, and wage rates.

Gross and Net Farm Income, Washington 1/

Item	1984	1985	1986	1987	1988
	Million Dollars				
Cash Receipts From Marketings	3,118.8	2,828.9	2,808.7	2,861.7	3,286.7
Government Payments	171.0	155.1	298.7	292.2	207.9
Non-Money Income	337.4	332.0	293.5	265.5	252.4
Other Farm Income 2/	141.1	172.6	184.9	199.3	225.4
Value of Inventory Adjustment	-39.7	-112.4	39.9	204.9	-27.3
Total Gross Farm Income	**3,728.6**	**3,376.2**	**3,626.1**	**3,823.6**	**3,945.1**
Farm Production Expenses	**2,724.1**	**2,583.3**	**2,402.8**	**2,426.6**	**2,671.6**
Total Net Farm Income	**1,004.6**	**792.8**	**1,223.3**	**1,396.9**	**1,273.6**

Farm Production Expenses, Washington 1/

Item	1984	1985	1986	1987	1988
	Million Dollars				
Intermediate Production Expense					
Farm Origin:					
Feed	383.6	340.3	301.7	302.4	404.6
Livestock & Poultry	90.2	81.9	75.3	115.4	175.6
Seed	60.4	58.7	52.3	52.7	55.0
Total	**534.2**	**480.9**	**429.3**	**470.5**	**635.2**
Manufactured Input:					
Fertilizer and Lime	157.8	147.4	115.5	113.9	131.0
Pesticides	113.9	119.3	107.1	109.6	112.7
Fuel and Oil	114.7	105.7	76.9	71.3	72.9
Electricity	46.8	46.5	42.0	51.7	55.6
Total	**433.2**	**418.8**	**341.5**	**346.5**	**372.2**
Other	452.9	433.8	426.5	429.5	433.0
Total Intermediate	**1,420.3**	**1,333.5**	**1,197.3**	**1,246.5**	**1,450.4**
Interest	376.7	363.4	328.9	305.3	310.0
Contract and Hired Labor	352.8	355.7	358.7	392.2	406.0
Net Rent to Nonoperator Landlords	136.3	107.2	131.8	142.7	145.4
Capital Consumption	370.1	340.7	305.5	261.9	282.5
Property Taxes	67.9	82.8	80.7	78.0	77.2
Total Production Expense 3/	**2,724.1**	**2,583.3**	**2,402.8**	**2,426.6**	**2,671.6**

1/ Source: Economic Indicators of the Farm Sector, State Financial Summary, 1988, ERS, USDA, October, 1989. Includes operator dwellings. Data may not add due to rounding.

2/ Includes Forest Product sales, recreational income, and other farm business-related income.

3/ Includes repair and maintenance; machine hire and custom work expenses; marketing, storage and transportation expense; and miscellaneous expenses.

Balance Sheet of Washington Farms, December 31 1/

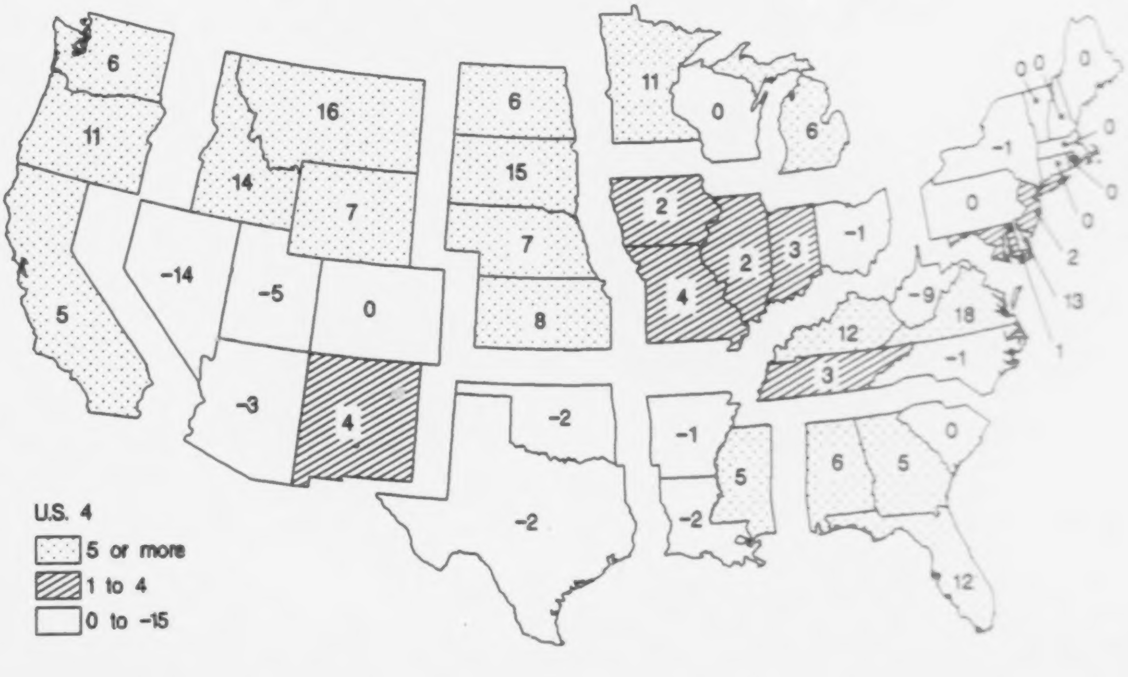
Item 2/	1984	1985	1986	1987	1988
			Million Dollars		
Total Farm Assets	19,329.3	17,370.7	15,795.2	15,550.9	16,467.4
Total Farm Debts	3,782.1	3,654.6	3,276.3	3,076.8	2,934.8
Debt/Asset Ratio, Total	**19.6**	**21.0**	**20.7**	**19.8**	**17.8**

1/ Source: Economic Indicators of Farm Sector, State Financial Summary, 1988, ERS, USDA, October, 1989.
2/ Includes operator households.

Average Value of Farm Land and Buildings

Date/ Year	California	Idaho	Oregon	Washington	U.S. Average
			Dollars Per Acre		
Apr 1, 1983	1,918	814	705	933	788
1984	1,981	808	719	972	801
1985	1,841	739	615	943	713
Feb 1, 1986	1,730	631	570	840	640
1987	1,554	552	541	756	599
1988	1,575	572	542	739	632
1989	1,670	601	542	769	667
1990	1,753	685	602	815	693

Percent Change in Farmland Value Per Acre: February 1, 1989 to January 1990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FARM LABOR

Farm employment data for the Pacific region indicate that the number of total workers on farms increased during 1989 and are continuing to increase in the first two quarters of 1990. The season low is generally in January which registered 84,000 workers in 1989, but increased to 108,000 for January 1990. Similar patterns are shown for the comparable quarters in 1988 through 1990. Hired workers is showing a mixed pattern however. The peak number of hired workers in 1989 was in July at 96,000, 12,000 less than July 1988.

Farm wage rates showed increases for each quarter when compared with the previous year except for October 1989 field workers. The composite hourly rate showed increases of between 5 and 16 percent compared with the year earlier periods. The hours worked were similar from quarter to quarter and year to year.

Wage Rates and Hours Worked, Pacific Region 1/

Year and Month	Hours Worked	Wage Rates			
		Field	Livestock	Field and Livestock	Composite Hourly Rate 2/
	Hours	Dollars per Hour			
1988					
April	41.2	5.01	5.42	5.08	5.18
July	36.7	4.60	5.32	4.68	4.67
October	41.0	6.11	5.56	6.04	5.40
1989					
January 3/	38.4	5.50	6.04	5.68	6.12
April	38.1	5.15	5.86	5.25	5.52
July	41.7	4.71	6.02	4.86	5.18
October	41.0	6.09	6.08	6.09	6.27
1990					
January	41.0	6.09	6.44	6.19	6.69
April	41.2	5.28	6.40	5.47	5.79

Workers on Farms, Pacific Region 1/

Year and Month	Number of Workers			Hired		
	All Farm Workers	Self-Employed	Unpaid	Number of Workers	Expected to be Employed	
					150 Days or More	149 Days or Less
	1,000 Workers					
1988						
April	98	40	12	46	30	16
July	180	57	15	108	32	76
October	116	47	11	58	27	31
1989						
January 3/	84	46	8	30	23	7
April	128	60	11	57	36	21
July	186	69	21	96	40	56
October	158	63	15	80	33	47
1990						
January	108	65	7	36	28	8
April	145	69	20	56	35	21

1/ Washington and Oregon form the Pacific Region, individual state data not available.

2/ Includes all workers and all methods of pay except those workers paid by piece rate.

3/ The January Farm Labor report was initiated in 1989.

FLORICULTURE

Washington's wholesale value of floriculture crops produced in 1989 increased to $47.1 million, up 20 percent from 1988. Producers utilized 7.2 million square feet of covered area and 1,954 acres of open ground to grow floriculture crops in 1989.

The open ground was used to produce cut flowers consisting mainly of tulips, daffodils, and irises. Wholesale value of other cut flowers increased 8 percent from 1988 to $9.0 million. Geraniums' wholesale value increased by 22 percent during 1989 to $4.3 million.

Floriculture crops data released earlier for 1984 through 1986 are not comparable with 1987 data or the 1988 and 1989 data published in this report because of program modifications and increasing coverage of the business over this period of time. A major list building effort was made for the 1988 survey. Every attempt has been made to make the 1987-89 data comparable. However, the 1988 data were collected with a Census Bureau questionnaire that was designed for collecting data for both the "1988 Census of Horticulture Specialties" to be published by the Department of Commerce, Bureau of the Census, and this publication. The use of a different questionnaire in 1988, from that used in 1987 and 1989 caused some differences in comparability of the data reported.

Growers, Growing Area, and Value of Sales

Year	Total Number of Growers	Covered Greenhouses			Total Greenhouse Cover
		Glass	Fiberglass	Film Plastic	
		1,000 Square Feet			
1987	139	2,525	962	2,815	6,302
1988	137	2,497	917	3,371	6,785
1989	134	2,617	778	3,480	6,875

Year	Shade and Temporary Cover	Total Covered Area	Open Ground	Total Wholesale Value Of Floriculture Crops
	1,000 Square Feet		Acres	$1,000
1987	175	6,477	1,510	43,818
1988	251	7,036	1,870	39,413
1989	302	7,177	1,954	47,125

Production, Sales, and Price

Item	Unit	Producers			Area in Production			Quantity Sold		
		1987	1988	1989	1987	1988	1989	1987	1988	1989
		Number			1,000 Square Feet			1,000 Units		
Cut Hybrid Tea Roses	Blooms	5	6	5	133	134	125	1,334	1,520	1,405
Chrysanthemums:										
Standard	Blooms	6	6	6	16	14	14	43	36	42
Pompon	Bunches	7	8	7	66	89	68	63	79	60
Potted	Pots	14	15	12	58	56	86	96	97	114
Hardy Garden	Pots	49	55	58	597	787	867	694	903	1,037
Other Cut Flowers		20	20	19	54,620	55,822	58,015	-	-	-
Other Potted Flowering	Pots	36	58	52	860	1,193	799	2,063	2,346	1,968
Geraniums:										
Bedding Plants	Flats	14	15	25	81	68	69	50	42	48
Potted, Cuttings	Pots	83	84	85	602	763	792	1,812	2,037	2,494
Potted, Seed	Pots	38	41	41	280	422	332	844	1,163	993
Hanging Baskets:										
Foliage	Baskets	36	30	34	-	-	-	283	228	200
Flowering	Baskets	97	106	105	-	-	-	312	346	443
Bedding Plants:										
Other Flowering and Foliage Type	Flats	91	88	87	1,425	1,217	1,604	913	702	1,004
Other Flowering and Foliage Type	Pots	73	86	78	4,524	4,593	5,479	7,956	7,463	11,082
Vegetable Type 1/	Flats	72	66	60	303	202	248	190	109	134
Vegetable Type 1/	Pots	55	55	49	323	348	306	954	704	1,091
Easter Lilies	Pots	12	15	14	71	64	71	130	115	110
Poinsettias	Pots	61	66	63	1,558	1,623	1,757	1,066	1,171	1,337

1/ Does not include vegetable transplants grown for use in commercial vegetable production.

- Data not collected.

Production, Sales, and Price (continued)

Item	Unit	Value of Sales at Wholesale 1/			Percent of Sales at Wholesale			Wholesale Price		
		1987	1988	1989	1987	1988	1989	1987	1988	1989
		$1,000			Percent			Dollars/Unit		
Cut Hybrid Tea Roses	Blooms	920	1,064	969	98	98	98	.69	.70	.69
Chrysanthemums:										
Standard	Blooms	32	23	25	85	82	86	.74	.65	.59
Pompon	Bunches	154	184	143	83	75	90	2.45	2.33	2.39
Potted 2/	Pots	400	310	407	91	94	95	4.17	3.20	3.57
Hardy Garden 2/	Pots	745	907	1,160	95	95	96	1.07	1.00	1.12
Other Cut Flowers		10,410	8,353	9,020	95	94	95	-	-	-
Other Potted Flowering	Pots	2,598	2,294	2,251	81	93	92	1.26	.67	.75
Geraniums:										
Bedding Plants	Flats	255	228	398	80	88	61	5.10	5.42	8.29
Potted, Cuttings 2/	Pots	2,366	2,496	3,142	75	82	82	1.31	1.23	1.26
Potted, Seed 2/	Pots	587	838	791	92	97	94	.70	.72	.80
Hanging Baskets:										
Foliage	Baskets	1,124	905	694	94	96	93	3.97	3.97	3.47
Flowering	Baskets	2,973	3,408	4,027	88	90	87	9.53	9.85	9.09
Bedding Plants:										
Other Flowering and Foliage Type	Flats	5,916	4,549	6,757	85	81	86	6.48	6.48	6.73
Other Flowering and Foliage Type 2/	Pots	6,047	5,300	7,457	94	94	94	.76	.71	.67
Vegetable Type 3/	Flats	1,210	727	875	84	84	81	6.37	6.67	6.53
Vegetable Type 2/ 3/	Pots	797	500	841	83	73	88	.84	.71	.77
Easter Lilies	Pots	499	459	439	93	92	93	3.84	3.99	3.99
Poinsettias 2/	Pots	3,535	3,996	4,433	89	92	93	3.31	3.41	3.32

1/ Equivalent wholesale value of all sales.

2/ Wholesale price is weighted average value of pots less than 5 inches and pots greater than 5 inches

3/ Does not include vegetable transplants grown for use in commercial vegetable production.

- Data not collected.

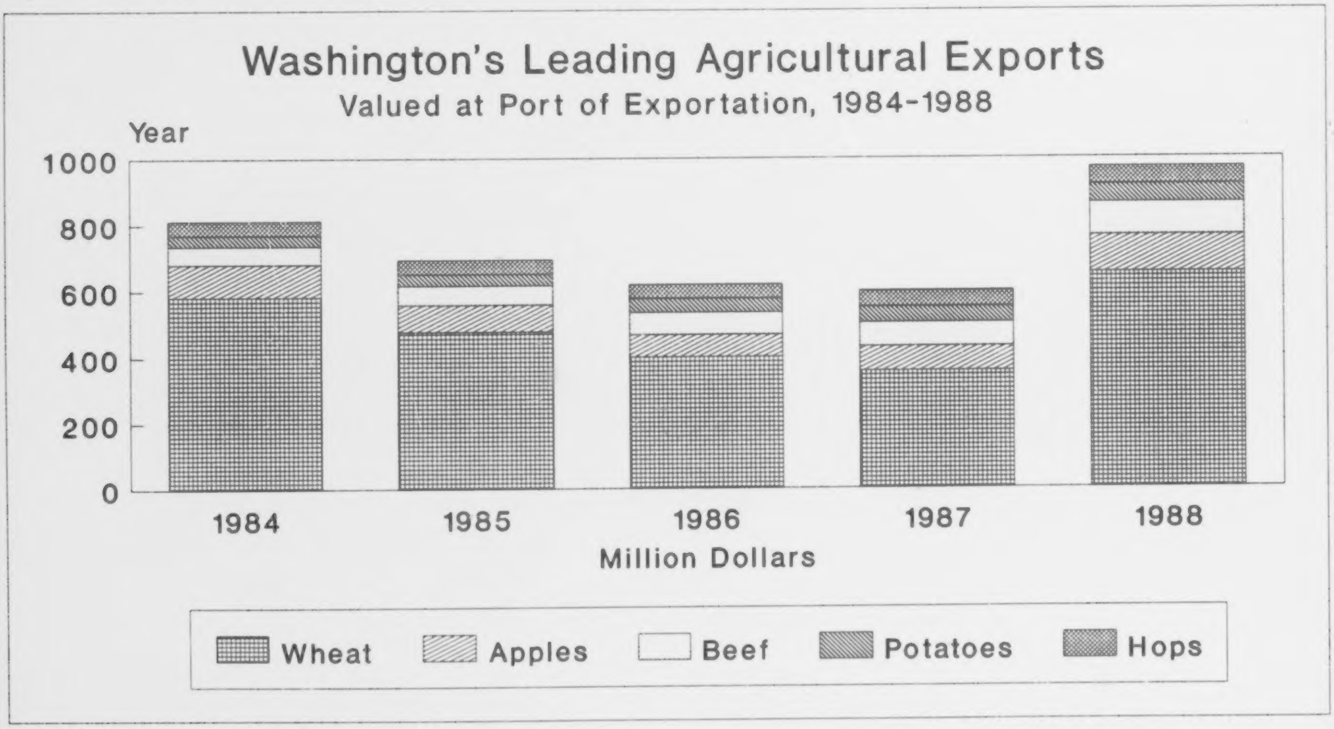
EXPORTS

The port values for Washington and U.S. 1988 agricultural exports gained significantly over the previous year. Washington's agricultural exports totaled $1.33 billion at port of embarkation, 4% of the U.S. total, and the highest level since the Washington Agricultural Statistics Service began the exports estimates program in 1984. U.S. agricultural exports for 1988 totaled $37.1 billion, 30% more than 1987, whereas Washington's agricultural exports showed a 47% increase over a year ago. Values at port of exportation, or embarkation, are based on port declarations, and include port charges, insurance and freight (C.I.F).

Wheat, Washington's #1 export commodity, made a very strong comeback in 1988, accounting for 49% of the State's agricultural exports. Wheat exports, which have shown, on a value basis, a steady decline since 1984, were 84% higher than in 1987, as well as 11% above 1984. The gains made by wheat exports were due to increased volume, as well as stronger prices.

Washington's #2 export commodity, apples, also came on strong in 1988. With a port value of $112 million, apple exports were up 51% from a year ago, with an 8% share of the State's total agricultural exports. Beef cattle and products, which have shown steady increases since 1984, retained the #3 spot in 1988. The port value of beef exports, $52 million, was 33% more than last year, and 7% of Washington's total agricultural exports. Potatoes, Washington's #4 export commodity, have also shown steady progress since 1984. With $56 million exported in 1988, potatoes gained a position on hops, which dropped to the #5 spot. However, 1988 was still a good year for hops exports, with a port value of $52 million, 9% higher than the previous year.

Hay and dairy exports gained significantly in 1988, with both moving up three positions to #6 and #7, respectively. The port value of hay exports totaled $50 million, up 59% from 1987, whereas dairy exports totaled $36 million, an increase of 79%. Seed crops gained 10% on a year ago, and maintained the #8 spot. Sweet corn, the #9 export commodity for Washington, broke into the top ten for the first time in five years, with a port value of $26 million, 34% more than last year. Rounding out the top ten were sweet cherries. With $24 million exported, sweet cherries were the only top ten commodity to lose ground with respect to Washington's 1987 agricultural exports.



THESE DATA ARE REPRINTED FROM WASHINGTON AGRICULTURAL STATISTICS 1988-1989 TO PROVIDE A MORE COMPLETE DESCRIPTION OF WASHINGTON'S AGRICULTURE. EXPORT ESTIMATES WERE NOT UPDATED FOR 1989 DUE TO A LACK OF FUNDING.

Washington's Leading Agricultural Exports Valued at Port of Exportation, Calendar years 1984-1988.

Commodity	Rank 1988	Value 1984	Value 1985	Value 1986	Value 1987	Value 1988	1988 as a Percent of 1987
				$1,000			
Wheat	1	583,424	477,306	399,810	354,533	651,710	184
Apples 1/	2	99,047	81,429	66,229	74,394	112,256	151
Beef Cattle & Products	3	53,854	57,959	67,068	73,739	98,085	133
Potatoes	4	34,438	35,641	43,410	47,472	55,549	117
Hops	5	41,911	42,959	42,044	47,502	51,792	109
All Hay (excl straw)	6	22,626	21,053	30,300	31,216	49,775	159
Dairy Cattle & Products	7	34,264	34,646	30,819	20,399	36,493	179
All Seeds	8	30,101	26,197	30,957	31,718	35,013	110
Sweet Corn	9	11,104	11,662	14,875	19,471	26,055	134
Sweet Cherries	10	9,656	7,472	14,863	32,255	24,130	75
Barley	11	38,078	16,176	25,589	41,889	21,703	52
Dry Peas	12	21,237	22,502	17,441	14,546	21,158	145
Mint Oil	13	14,088	16,618	17,640	16,097	20,993	130
Grapes	14	6,746	7,544	8,228	14,692	20,166	137
Nursery Products	15	8,498	7,993	9,530	10,238	15,074	147
Asparagus	16	10,209	8,677	4,696	11,609	12,194	105
Pears	17	9,493	8,340	10,461	8,699	11,629	134
Lentils	18	11,600	19,093	20,988	9,029	11,408	126
Onions	19	8,983	3,245	3,837	4,348	7,558	174
Green Peas, Processed	20	2,715	2,377	4,034	3,749	5,195	139
Dry Beans	21	4,419	4,138	2,988	2,070	3,213	155
Poultry	22	3,621	3,329	3,449	2,183	3,043	139
Carrots	23	1,599	852	1,173	1,073	2,968	277
Peaches & Nectarines	24	954	711	1,506	1,249	2,529	202
Prunes & Plums	25	1,456	1,355	1,656	939	1,978	211
Cauliflower	26	665	599	855	1,010	824	82
Other Commodities		18,905	18,024	24,595	29,211	31,913	109
Washington Total		**1,083,691**	**937,897**	**899,041**	**905,330**	**1,334,404**	**147**
U.S. Exports		**37,804,000**	**29,026,000**	**26,221,675**	**28,637,355**	**37,093,000**	**130**

1/ Includes value of fresh shipments, dried apples, and apple juice.

REPRINTED FROM WASHINGTON AGRICULTURAL STATISTICS 1988-1989.

ANNUAL EXPORTS BY COUNTRY U.S. AND NORTHWEST PORT DISTRICT TOTALS /1

COUNTRY	U.S. RANK				U.S. PORTS-VALUE				NW PORTS-VALUE				NW % OF U.S.			
	1985	1986	1987	1988	1985	1986	1987	1988	1985	1986	1987	1988	1985	1986	1987	1988
						$1,000				$1,000				%		
JAPAN	1	1	1	1	5,705,569	5,629,674	6,325,110	8,980,215	1,518,688	1,467,949	1,543,037	2,295,320	26.62	26.08	24.40	25.56
SOUTH KOREA	6	4	3	2	1,429,610	1,306,945	1,859,520	2,287,374	623,154	619,076	743,849	970,950	43.59	47.37	40.00	42.45
TAIWAN	7	5	5	7	1,158,736	1,115,373	1,257,215	1,625,139	548,422	445,400	385,057	752,561	47.33	39.93	30.63	46.31
CANADA	5	3	4	6	1,479,493	1,439,910	1,715,614	1,876,576	262,127	282,052	308,949	355,558	17.72	19.59	18.01	18.95
EGYPT	8	8	9	11	788,814	720,402	662,058	816,953	62,278	32,219	148,987	292,808	7.90	4.47	22.50	35.84
INDIA	-	-	-	22	-	-	-	383,804	-	-	-	163,701	-	-	-	42.65
PHILLIPPINES	24	24	25	24	232,116	195,998	208,269	314,696	133,474	100,434	108,403	151,907	57.50	51.24	52.05	48.27
PAKISTAN	23	23	-	20	248,720	220,370	-	386,996	54,026	80,054	-	122,419	-	36.33	-	31.63
U.K.	13	9	11	10	530,159	667,264	640,199	863,333	59,946	89,646	77,997	90,962	11.31	13.43	12.18	10.54
HONG KONG	21	19	18	18	288,462	302,867	369,124	430,157	53,096	59,588	79,054	73,760	18.41	19.67	21.42	17.15
CHINA	-	-	19	13	-	-	360,100	756,960	-	-	139,831	66,225	-	-	38.83	8.75
MEXICO	4	6	6	3	1,650,909	1,064,523	1,176,740	2,185,542	21,854	6,480	9,882	58,322	1.32	0.61	0.84	2.67
SAUDI ARABIA	18	16	16	19	309,997	351,107	448,133	388,146	17,748	107,421	216,014	55,095	5.73	30.59	48.20	14.19
FRANCE	16	14	13	16	394,313	449,521	563,272	577,011	26,876	42,720	56,034	41,363	6.82	9.50	9.95	7.17
WEST GERMANY	9	7	7	8	704,711	820,084	1,098,436	1,179,587	15,950	23,105	24,555	32,840	2.26	2.82	2.24	2.78
U.S.S.R.	2	12	8	4	1,656,991	647,463	922,976	2,163,294	-	-	1,207	28,981	-	-	0.13	1.34
NETHERLANDS	3	2	2	5	1,781,185	1,967,523	1,872,159	1,963,680	18,537	29,596	30,661	22,777	1.04	1.50	1.64	1.16
IRAQ	19	18	14	12	304,553	324,341	489,127	802,193	6,503	182	550	11,138	2.14	0.06	0.11	1.39
ITALY	12	10	10	14	585,116	661,038	646,877	698,216	8,153	10,802	8,918	9,078	1.39	1.63	1.38	1.30
SPAIN	10	11	12	9	627,453	649,447	600,804	882,872	5,039	9,169	7,192	8,787	0.80	1.41	1.20	1.00
BELGIUM	17	17	17	21	351,695	349,019	417,789	385,818	6,702	9,087	11,739	7,963	1.91	2.60	2.81	2.06
ISRAEL	22	22	23	23	264,581	246,409	259,412	324,659	4	136	348	2,838	-	0.06	0.13	0.87
ALGERIA	25	21	20	17	217,638	279,783	301,623	563,556	-	-	-	2,[illegible]38	-	-	-	0.38
PORTUGAL	15	20	21	25	429,364	291,909	274,228	299,079	78	84	1,809	860	0.02	0.03	0.66	0.29
VENEZUELA	11	15	15	15	624,404	437,604	475,564	653,166	4,024	2,067	3,611	-	0.64	0.47	0.76	-
BRAZIL	14	13	22	-	464,889	547,495	264,839	-	9,073	16,557	11,131	-	1.95	3.02	4.20	-
NIGERIA	20	-	-	-	302,389	-	-	-	60	-	-	-	-	-	-	-
MOROCCO	-	-	24	-	-	-	211,486	-	-	-	26	-	-	-	0.01	-
INDONESIA	-	25	-	-	-	175,504	-	-	-	60,839	-	-	-	34.67	-	-
TOTAL	**25**	**25**	**25**	**25**	**22,531,867**	**21,027,856**	**23,420,674**	**31,789,022**	**3,455,812**	**3,494,676**	**3,910,841**	**5,618,351**	**15.34**	**16.62**	**16.73**	**17.67**

/1 COUNTRIES ARRANGED IN DESCENDING ORDER BY NW RANK FOR 1988.

- NOT A RANKED COUNTRY, DATA NOT AVAILABLE.

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TOP RANKED EXPORT COMMODITIES BY COUNTRY, U.S. PORT DISTRICT TOTALS, 1988

COUNTRY	U.S. RANK 1988	1988 PORT VALUES U.S.	1988 PORT VALUES NW	#1 COMMODITY	VALUE	%	#2 COMMODITY	VALUE	%	#3 COMMODITY	VALUE	%
		$ 1,000			$1,000			$1,000			$1,000	
JAPAN	1	8,980,215	2,295,320	CORN,YELLOW,N/DONATED	1,598,715	18	SOYBEANS	1,027,231	11	BEEF,CRCSS,W/O BONE,FR	765,503	9
KOREA REPUBLIC	2	2,287,374	970,950	HIDES,CATTLE,WHOLE	636,864	28	CORN,YELLOW,N/DONATED	428,859	19	COTTON,N/CRD,1-1 1/8 IN	401,241	18
MEXICO	3	2,185,542	58,322	CORN,YELLOW,N/DONATED	354,072	16	SOYBEANS	346,932	16	GRAIN SORGHUM,EX SEED	134,693	6
U.S.S.R.	4	2,163,294	28,981	CORN,YELLOW,N/DONATED	886,082	41	WHEAT,N/DONATED	750,323	35	SOYBEAN,OILCAKE,MEAL	246,260	11
NETHERLANDS	5	1,963,680	22,777	SOYBEANS	851,818	43	CORN GLUTEN FEED	275,956	14	FEED,CORN PRODUCTS,NSPF	125,270	6
CANADA	6	1,876,576	355,558	SOYBEAN,OILCAKE,MEAL	181,919	10	GRAPES,FRESH	64,154	3	BEEF,CRCSS,W/O BONE,FR	52,522	3
CHINA T	7	1,625,139	752,561	SOYBEANS	476,362	29	CORN,YELLOW,N/DONATED	461,277	28	HIDES,CATTLE,WHOLE	156,937	10
FR GERMANY	8	1,179,587	32,840	SOYBEANS	235,599	20	TBCO,FILL,CIG,FLUE,STEM	136,931	12	ALMONDS,SHELLED	120,180	10
SPAIN	9	882,872	8,787	SOYBEANS	294,065	33	CORN,YELLOW,N/DONATED	231,746	26	CORN GLUTEN FEED	37,339	4
U.K.	10	863,333	90,962	SOYBEANS	143,807	17	MULES,BURROS,ETC	84,568	10	TBCO,FILL,CIG,FLUE,STEM	41,986	5
EGYPT	11	816,953	292,808	WHEAT,N/DONATED	362,917	44	WHEAT,FLOUR,NSPF,N/DON	113,711	14	CORN,YELLOW,N/DONATED	92,765	11
IRAQ	12	802,193	11,138	HD RICE,LONG,N/PRB,N/DON	181,118	23	WHEAT,N/DONATED	112,086	14	FEED,POULTRY,PREP	92,572	12
CHINA M	13	756,960	66,225	WHEAT,N/DONATED	697,838	92	COTTON,N/CRD,1-1 1/8 IN	25,181	3	HIDES,CATTLE,WHOLE	6,214	1
ITALY	14	698,216	9,078	SOYBEAN,OILCAKE,MEAL	124,196	18	COTTON,N/CRD/1-1 1/8 IN	101,228	14	WHEAT,N/DONATED	51,786	7
VENEZUELA	15	653,166	0	SOYBEAN,OILCAKE,MEAL	229,659	35	GRAIN SORGHUM,EX SEED	170,956	26	WHEAT,N/DONATED	72,228	11
FRANCE	16	577,011	41,363	SOYBEANS	60,523	10	CORN GLUTEN FEED	48,556	8	HORSEMEAT,CRCSS,FR,FZN	38,093	7
ALGERIA	17	563,556	2,138	WHEAT,N/DONATED	173,901	31	SOYBEAN,N/CRD,1-1 1/8 IN	110,682	20	CORN,YELLOW,N/DONATED	109,504	19
HONG KONG	18	430,157	73,760	CHICKENS,PC,FR,CHLD,FZN	45,464	11	ORANGES,OTHER,FRESH	39,926	9	TBCO,FILL,CIG,FLUE,STEM	33,874	8
SAUDI ARABIA	19	388,146	55,095	HD RICE,LONG,PRB,N/DON	99,095	26	CORN,YELLOW,N/DONATED	61,109	16	SOYBEAN,OILCAKE,MEAL	44,736	12
PAKISTAN	20	386,996	122,419	OIL,SOYBEAN,CRUDE	233,491	60	WHEAT,N/DONATED	124,488	32	TALLOW,INEDIBLE	20,568	5
BELGIUM	21	385,818	7,963	SOYBEANS	143,030	37	HD RICE,LONG,PRB,N/DON	36,841	10	HORSEMEAT,CRCSS,FR,FZN	32,093	8
INDIA	22	383,804	163,701	WHEAT,N/DONATED	221,036	58	OIL,SOYBEAN,CRUDE	53,640	14	CORN,YELLOW,N/DONATED	22,222	6
ISRAEL	23	324,659	2,838	SOYBEANS	128,455	40	WHEAT,N/DONATED	55,226	17	CORN,YELLOW,N/DONATED	36,951	11
PHILLIPPINES R	24	314,696	151,907	WHEAT,N/DONATED	118,281	38	HD RICE,MED,N/PRB,N/DON	31,940	10	SOYBEAN,OILCAKE,MEAL	25,536	8
PORTUGAL	25	299,079	860	SOYBEANS	94,194	31	CORN GLUTEN FEED	72,812	24	CORN,YELLOW,N/DONATED	50,164	17

COUNTRY	U.S. RANK 1988	1988 PORT VALUES U.S.	1988 PORT VALUES NW	#4 COMMODITY	VALUE	%	#5 COMMODITY	VALUE	%	#6 COMMODITY	VALUE	%
		$ 1,000			$1,000			$1,000			$1,000	
JAPAN	1	8,980,215	2,295,320	SALMON,SOCKEYE(RED)	484,424	5	COTTON,N/CRD,1-1 1/8 IN	427,511	5	WHEAT,N/DONATED	425,510	5
KOREA REPUBLIC	2	2,287,374	970,950	WHEAT,N/DONATED	286,127	13	SOYBEANS	259,473	11	COTTON,OTH,N/CRD,1 1/8IN	35,255	2
MEXICO	3	2,185,542	58,322	MILK,NONFAT DRY,N/DON	101,736	5	SOYBEAN,OILCAKE,MEAL	101,459	5	CATTLE,OTHER,N/BREED	95,537	4
U.S.S.R.	4	2,163,294	28,981	SOYBEANS	157,879	7	ALMONDS,SHELLED	46,848	2	COTTON,N/CRD/1-1 1/8 IN	31,033	1
NETHERLANDS	5	1,963,680	22,777	SOYBEAN,OILCAKE,MEAL	121,273	6	TBCO,FILL,CIG,FLUE,STEM	43,109	2	FEED,LIVESTOCK,NSPF,PREP	39,783	2
CANADA	6	1,876,576	355,558	ORANGES,OTHER,FRESH	47,639	3	TOMATOES,FR,CHLD	44,187	2	COTTON,N/CRD/1-1 1/8 IN	42,285	2
CHINA T	7	1,625,139	752,561	WHEAT,N/DONATED	128,345	8	TBCO,FILL,CIG,FLUE,STEM	49,794	3	COTTON,N/CRD,1-1 1/8 IN	42,759	3
FR GERMANY	8	1,179,587	32,840	TBCO,FILL,CIG,BURL,STEM	73,526	6	COTTON,N/CRD/1-1 1/8 IN	59,577	5	FEED,CORN PRODUCTS,NSPF	45,959	4
SPAIN	9	882,872	8,787	TBCO,STEMS,SCRAPS,ETC	37,147	4	GRAIN SORGHUM,EX SEED	25,424	3	TALLOW,INEDIBLE	21,554	2
U.K.	10	863,333	90,962	ALMONDS,SHELLED	30,610	4	DRY BEANS,NAVY OR PEA	29,860	3	CORN GLUTEN FEED	29,808	3
EGYPT	11	816,953	292,808	TALLOW,INEDIBLE	55,933	7	SOYBEAN,OILCAKE,MEAL	53,727	7	COTTON,N/CRD,1-1 1/8 IN	34,191	4
IRAQ	12	802,193	11,138	SOYBEAN,OILCAKE,MEAL	74,100	9	CORN,YELLOW,N/DONATED	71,900	9	COTTON,N/CRD,1-1 1/8 IN	38,180	5
CHINA M	13	756,960	66,225	CHICKENS,BREED,BROILER	5,810	1	TBCO,STEMS,SCRAPS,ETC	3,671	0	INTESTINES,HOG	3,142	0
ITALY	14	698,216	9,078	CORN GLUTEN FEED	34,057	5	SOYBEANS	31,162	4	TBCO,FILL,CIG,FLUE,STEM	29,943	4
VENEZUELA	15	653,166	0	SOYBEANS	36,948	6	OIL,COTTONSEED,ONCE REF	23,598	4	TALLOW,INEDIBLE	19,016	3
FRANCE	16	577,011	41,363	MULES,BURROS,ETC	35,394	6	ALMONDS,SHELLED	29,617	5	GRAPEFRUIT,FRESH	27,153	5
ALGERIA	17	563,556	2,138	BARLEY,EX MALTING	39,886	7	OIL,SUNFLOWER SEED	31,762	6	COTTON,N/CRD/1-1 1/8 IN	17,287	3
HONG KONG	18	430,157	73,760	WHEAT,N/DONATED	18,217	4	TBCO,FILL,CIG,BURL,STEM	17,429	4	FURSKINS,MINK,WHL,DRESSED	17,379	4
SAUDI ARABIA	19	388,146	55,095	BARLEY,EX MALTING	44,643	12	WHEAT,N/DONATED	38,199	10	OIL,CORN,OTHER	16,529	4
PAKISTAN	20	386,996	122,419	TBCO,FILL,CIG,FLUE,STEM	1,924	0	CHICKENS,BREED,BROILER	930	0	WHEAT,DONATED	727	0
BELGIUM	21	385,818	7,963	WHEAT,N/DONATED	27,601	7	CORN,YELLOW,N/DONATED	15,940	4	COTTON,N/CRD/1-1 1/8 IN	13,041	3
INDIA	22	383,804	163,701	OIL,SOYBEAN,REF,DON	17,568	5	WHEAT,BULGUR,DON	11,879	3	ALMONDS,N/SHELLED	10,883	3
ISRAEL	23	324,659	2,838	GRAIN SORGHUM,EX SEED	33,550	10	BARLEY,EX MALTING	8,727	3	ALMONDS,SHELLED	3,917	1
PHILLIPPINES R	24	314,696	151,907	MILK,NONFAT DRY,DON	24,118	8	COTTON,N/CRD,1-1 1/8 IN	20,860	7	TBCO,FILL,CIG,BURL,STEM	15,162	5
PORTUGAL	25	299,079	860	FEED,LIVESTOCK,NSPF,PREP	15,898	5	COTTON,N/CRD,1-1 1/8 IN	11,593	4	COD,DRIED,SMOKED,ETC	9,644	3

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Usual Planting and Harvesting Dates, Washington

Crop	Usual Planting Dates	Usual Harvesting Dates		
		Begin	Most Active	End
Fall Barley	Sep 1-Nov 10	Jul 5	Jul 15-Aug 10	Aug 20
Spring Barley	Mar 1-May 15	Jul 15	Jul 25-Aug 25	Sep 15
Dry Beans	May 1-Jun 10	Aug 20	Sep 5-Sep 30	Nov 1
Lentils	Apr 10-May 10	Jul 15	Jul 25-Aug 25	Sep 1
Dry Peas	Apr 5-May 1	Jul 15	Jul 25-Aug 25	Sep 1
Grain Corn	Apr 5-May 20	Oct 15	Oct 25-Nov 20	Dec 15
Silage Corn	Apr 5-May 20	Sep 1	Sep 5-Oct 5	Oct 15
Alfalfa Hay		May 25		Oct 15
Other Hay		May 25		Sep 15
Oats	Mar 10-Apr 10	Jul 15	Aug 1-Aug 25	Sep 10
Winter Wheat	Aug 15-Nov 20	Jul 10	Jul 25-Aug 25	Sep 20
Spring Wheat	Mar 1-May 15	Jul 15	Jul 25-Aug 20	Sep 30
Asparagus (F)		Apr 10	May 5-Jun 5	Jun 21
Snap Beans (P)	May 10-Jun 21	Jul 20	Aug 5-Sep 1	Oct 1
Carrots (F)	Apr 15-Jul 30	Jul 30	Sep 1-Nov 1	Dec 31
Carrots (P)	Apr 15-Jul 30	Jul 30	Sep 1-Nov 1	Dec 31
Sweet Corn (F)	Apr 15-Jun 5	Jul 25	Aug 1-Sep 20	Sep 30
Sweet Corn (P)	Apr 10-Jun 25	Aug 20	Sep 1-Oct 5	Oct 20
Lettuce (F)	Mar 24-Aug 15	Jun 25	Sep 10-Nov 1	Nov 15
Onions	Transplant:			
Non-storage--Fall	Oct 15-Dec 10	Jul 5	Jul 20-Aug 5	Aug 15
--Spring	Mar 20-Apr 5	Jun 20	Jul 5-Aug 1	Sep 1
Storage	Mar 25-Apr 15	Sep 10	Sep 15-Oct 5	Oct 20
Green Peas (P)	Apr 1-Jun 20	Jun 15	Jun 25-Aug 15	Aug 31

Crop	Usual Dates of Full Bloom	Usual Harvesting Dates		
		Begin	Most Active	End
Cultivated Blackberries	Jun 15-Jul 10	Jul 10	Aug 15-Sep 20	Oct 10
Blueberries	May 10-May 15	Jul 5	Aug 5-Sep 15	Oct 5
Cranberries	Jun 10-Jun 15	Oct 1	Oct 5-Oct 10	Nov 1
Currants	Apr 1-Apr 5	Jul 5	Jul 10-Jul 20	Jul 25
Raspberries	May 10-May 15	Jun 25	Jul 15-Jul 20	Aug 15
Strawberries	Apr 10-May 15	Jun 10	Jun 25-Jul 5	Jul 20
Apples	Apr 5-May 10	Aug 10	Sep 5-Oct 25	Nov 1
Apricots	Mar 20-Apr 5	Jun 25	Jul 5-Jul 25	Aug 1
Sweet Cherries	Apr 10-Apr 25	Jun 10	Jun 15-Jul 15	Jul 20
Grapes	May 25-Jul 10	Sep 15	Sep 15-Oct 20	Oct 20
Peaches	Apr 10-Apr 20	Jul 10	Aug 10-Sep 10	Sep 20
Bartlett Pears	Apr 5-May 5	Aug 10	Aug 15-Sep 10	Sep 20
Other Pears	Apr 5-May 5	Sep 5	Sep 20-Oct 20	Nov 1
Prunes	Apr 15-Apr 20	Aug 10	Aug 20-Sep 5	Oct 1

(F)=Fresh market
(P)=Processing market

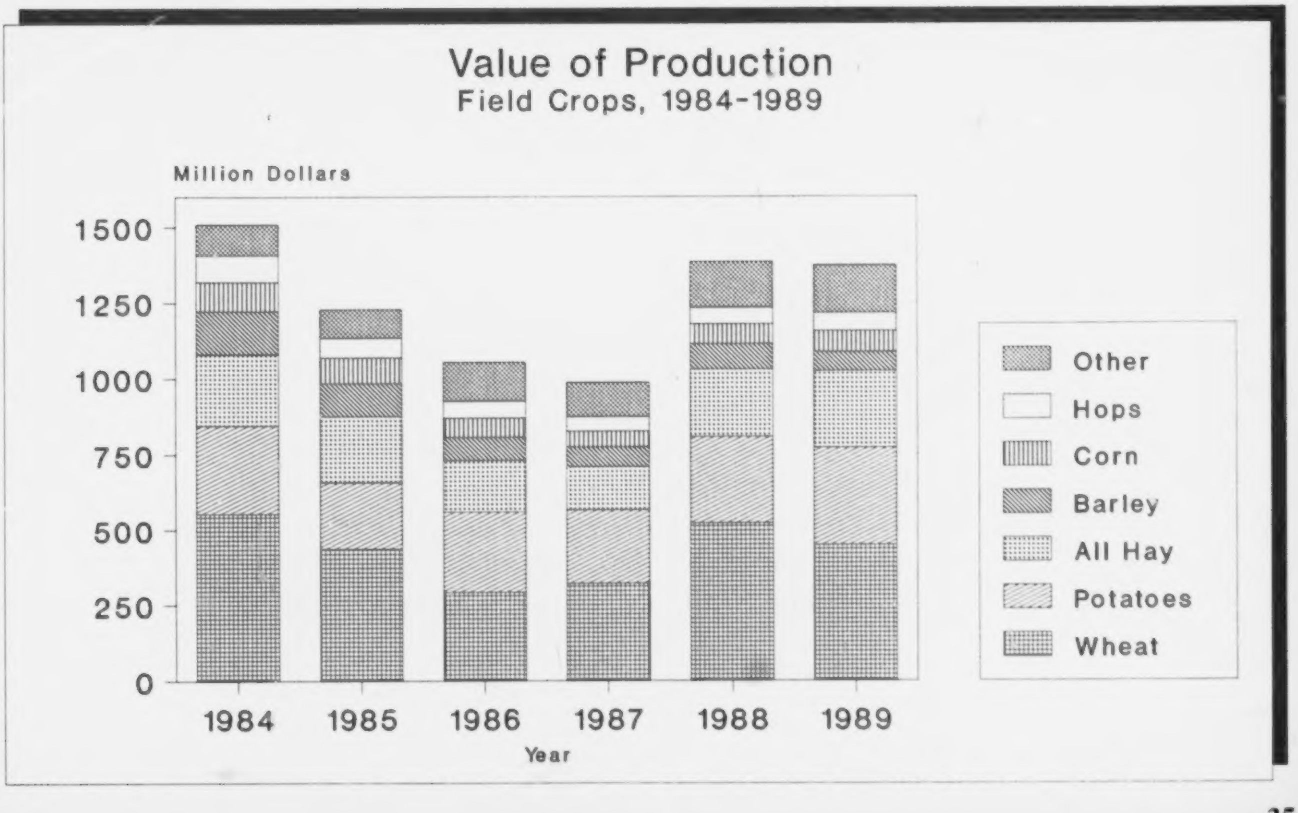
FIELD CROPS

The soil moisture conditions in the fall of 1988 were short in most areas of the State. Seeding of winter wheat and winter barley began the last week of August, but were dependent on rainfall because of the prolonged dry weather. On September 18, 1988, planting of winter wheat was 52% complete, 6 points ahead of the 5-year average, facilitated by improved soil moisture. Emergence was 57% complete on October 9, 1 point behind the 5-year average. Winter wheat planted and emerged were 99% and 92% complete, respectively, on November 13, virtually the same as the 5-year average.

Field crop conditions remained stable through the months of November and December with mild temperatures and adequate moisture. Moderate to warm temperatures prevailed across most of the State during January. There was only light snow cover when an arctic cold front arrived the first week of February. Winter grain crops received substantial injury from the sub-zero temperatures and lack of snow cover in many areas.

Spring fieldwork was delayed by rain, snow, and freezing temperatures and producers were unable to assess the full extent of the winter damage until mid-March. On April 2, 1989, spring wheat was 21% seeded, down 22 points from the 5-year average of 43% seeded. Seeding of spring barley on April 2 was 6% completed, compared with a 5-year average of 26%. Wheat and barley conditions were fair to poor throughout April, but improved through May, as poor fields were abandoned and spring wheat and barley were planted. Corn seeding began in late April and was finished by mid-June. Potato planting began in late March, as weather and field conditions permitted. The potato crop had almost totally emerged by mid-June and the crop condition remained good throughout the season.

The alfalfa hay harvest began in mid-May, with the warmer temperatures, and continued through June. Early potato and winter wheat harvest began in mid-July. The second cutting of alfalfa hay began in late July with the third cutting of alfalfa beginning the last week of July. The third cutting of alfalfa hay was 85% complete by September 18, 1 point behind the 5-year average. Rains in mid-August slowed the harvest of small grains, but were good for soil moisture. Harvest of winter wheat was 87% complete on August 27, 7 points behind the 5-year average, while spring wheat harvest was 85% complete, 4 points behind the 5-year average. Potato harvest was virtually complete the first week of November. Corn for grain harvest continued into December, as the weather permitted.



Field Crop Acreage, Production, Price and Value

Crop and Year	Acreage Planted	Acreage Harvested	Yield Per Acre	Unit	Production	Average Price Per Unit	Value of Production
	1,000 Acres				1,000 Units	Dollars	1,000 Dollars
Wheat, Winter							
1985	2,550	2,400	48.0	Bu.	115,200	-	-
1986	2,250	2,100	49.0	Bu.	102,900	-	-
1987	1,900	1,825	57.0	Bu.	104,025	-	-
1988	1,850	1,750	62.0	Bu.	108,500	-	-
1989	2,100	1,300	53.0	Bu.	68,900	-	-
Wheat, Spring							
1985	300	290	45.0	Bu.	13,050	-	-
1986	320	310	45.0	Bu.	13,950	-	-
1987	200	190	54.0	Bu.	10,260	-	-
1988	320	310	52.0	Bu.	16,120	-	-
1989	1,000	970	43.0	Bu.	41,710	-	-
Wheat, All							
1985	2,850	2,690	47.7	Bu.	128,250	3.41	437,333
1986	2,570	2,410	48.5	Bu.	116,850	2.51	293,294
1987	2,100	2,015	56.7	Bu.	114,285	2.82	322,284
1988	2,170	2,060	60.5	Bu.	124,620	4.19	522,158
1989	3,100	2,270	48.7	Bu.	110,610	4.05	447,970
Barley							
1985	1,200	1,180	48.0	Bu.	56,640	1.95	110,448
1986	920	900	50.0	Bu.	45,000	1.67	75,150
1987	660	645	55.0	Bu.	35,475	1.87	66,338
1988	580	560	62.0	Bu.	34,720	2.45	85,064
1989	500	490	58.0	Bu.	28,420	2.30	65,366
Oats							
1985	70	33	65.0	Bu.	2,145	1.50	3,218
1986	70	33	65.0	Bu.	2,145	1.10	2,360
1987	75	30	66.0	Bu.	1,980	1.40	2,772
1988	80	35	67.0	Bu.	2,345	2.05	4,807
1989	85	45	63.0	Bu.	2,835	1.35	3,827
Corn for Grain 1/							
1985	190	135	160.0	Bu.	21,600	2.65	57,240
1986	170	120	170.0	Bu.	20,400	1.80	36,720
1987	120	80	170.0	Bu.	13,600	2.15	29,240
1988	120	80	170.0	Bu.	13,600	3.00	40,800
1989	130	90	175.0	Bu.	15,750	2.80	44,100
Corn for Silage							
1985	-	55	22.0	Tons	1,210	22.00	26,620
1986	-	50	24.0	Tons	1,200	22.50	27,000
1987	-	40	25.0	Tons	1,000	22.00	22,000
1988	-	40	25.0	Tons	1,000	24.00	24,000
1989	-	40	25.0	Tons	1,000	25.00	25,000
Dry Beans							
1985	34	33	21.5	Cwt.	710	18.20	12,922
1986	32	31	21.6	Cwt.	670	17.80	11,926
1987	36	35	21.3	Cwt.	746	15.40	11,488
1988	37	36	20.6	Cwt.	742	28.10	20,850
1989	44	43	21.6	Cwt.	929	25.10	23,318
Dry Edible Peas							
1985 2/	-	85.0	16.6	Cwt.	1,411	9.20	12,981
1986	110.0	109.0	18.4	Cwt.	2,006	9.00	18,054
1987	107.0	106.0	20.0	Cwt.	2,120	7.60	16,112
1988	117.0	116.0	21.4	Cwt.	2,482	8.70	21,593
1989	115.0	114.0	21.8	Cwt.	2,485	8.10	20,129
Lentils							
1985 2/	-	84.0	7.5	Cwt.	630	29.00	18,270
1986	113.0	112.0	12.2	Cwt.	1,366	19.50	26,637
1987	98.0	97.0	12.0	Cwt.	1,164	11.00	12,804
1988	49.0	48.0	12.4	Cwt.	595	16.90	10,056
1989	55.0	54.0	12.0	Cwt.	648	18.20	11,794

Field Crop Acreage, Production, Price, and Value (continued)

Crop and Year	Acreage		Yield Per Acre	Unit	Production	Average Price Per Unit	Value of Production
	Planted	Harvested					
	1,000 Acres				1,000 Units	Dollars	1,000 Dollars
Potatoes							
1985	127	126	505	Cwt.	63,630	3.45	219,524
1986	119	118	525	Cwt.	61,950	4.30	266,385
1987	124	124	540	Cwt.	66,960	3.65	244,404
1988	115	115	550	Cwt.	63,250	4.50	284,625
1989	118	118	545	Cwt.	64,310	5.00	321,550
Hops							
1985	-	19.5	1,870	Lbs.	36,465	1.80	65,637
1986	-	17.4	2,040	Lbs.	35,496	1.59	56,439
1987	-	20.1	1,860	Lbs.	37,398	1.32	49,365
1988	-	23.1	1,721	Lbs.	39,751	1.36	54,062
1989	-	24.3	1,782	Lbs.	43,377	1.33	57,691
Alfalfa Hay							
1985	-	450	3.9	Tons	1,755	-	-
1986	-	470	4.2	Tons	1,974	-	-
1987	-	460	4.3	Tons	1,978	-	-
1988	-	490	4.2	Tons	2,058	-	-
1989	-	480	4.3	Tons	2,064	-	-
Other Hay							
1985	-	350	2.4	Tons	840	-	-
1986	-	340	2.5	Tons	850	-	-
1987	-	270	2.4	Tons	648	-	-
1988	-	310	2.5	Tons	775	-	-
1989	-	300	2.5	Tons	750	-	-
All Hay							
1985	-	800	3.24	Tons	2,595	84.50	219,278
1986	-	810	3.49	Tons	2,824	60.00	172,440
1987	-	730	3.60	Tons	2,626	54.50	143,117
1988	-	800	3.54	Tons	2,833	78.50	222,391
1989	-	780	3.61	Tons	2,814	90.00	253,260
Peppermint							
1985	-	13.2	87	Lbs.	1,148	8.30	9,528
1986	-	10.9	89	Lbs.	970	8.35	8,100
1987	-	11.5	87	Lbs.	1,001	10.40	10,410
1988	-	16.5	86	Lbs.	1,419	14.30	20,292
1989	-	17.3	91	Lbs.	1,574	10.70	16,842
Spearmint							
1985	-	14.0	115	Lbs.	1,605	10.80	17,334
1986	-	13.0	143	Lbs.	1,859	10.70	19,891
1987	-	10.2	138	Lbs.	1,408	11.40	16,051
1988	-	9.7	130	Lbs.	1,261	11.70	14,754
1989	-	10.6	104	Lbs.	1,102	12.30	13,555
Rapeseed							
1986	15	14	1,700	Lbs.	23,800	.075	1,785
1987	15	13	1,385	Lbs.	18,000	.075	1,350
Other Crops							
1985	-	108	-	-	-	-	19,300
1986	-	130	-	-	-	-	38,400
1987	-	161	-	-	-	-	39,780
1988 3/	-	170	-	-	-	-	58,575
1989 3/	-	176	-	-	-	-	68,604
State Total 4/							
1985	5,594.7	5,375.7	-	-	-	-	1,229,633
1986	5,100.3	4,878.3	-	-	-	-	1,054,581
1987	4,267.8	4,117.8	-	-	-	-	987,515
1988	4,287.3	4,109.3	-	-	-	-	1,384,207
1989	5,155.2	4,272.2	-	-	-	-	1,373,006

1/ Corn planted acres is "Planted for Grain and Silage".
2/ Data provided by the American Dry Pea and Lentil Association.
3/ Other crops includes rapeseed for 1988 and 1989.
4/ Planted acres for State total includes harvested acreage for hops, hay, mint, dry edible peas, lentils, and other crops.
NA Not available.

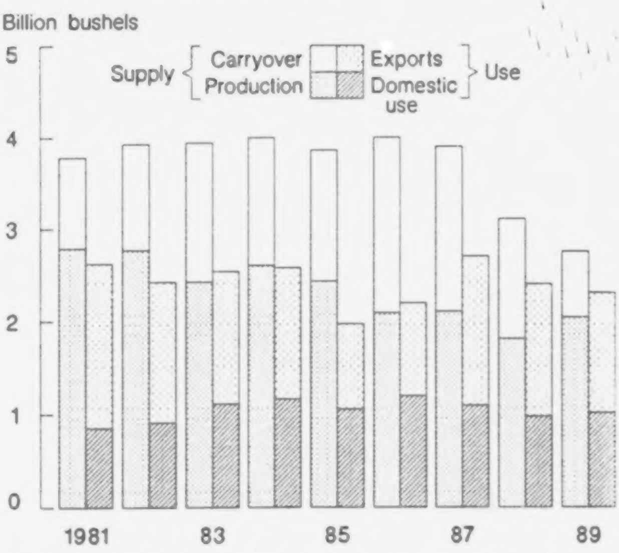
ALL WHEAT

The all wheat acreage planted in Washington was 3,100,000 acres in 1989, up 930,000 acres from 1988. This large increase was the result of winter damage to a high percentage of the state's fall-seeded wheat acreage, which forced growers to reseed to spring varieties. Harvested acreage was 2,270,000 and production totaled 110,610,000 bushels, a decrease of 11 percent from 1988. The 1989 average yield per acre was 48.7 bushels compared to the 1988 average of 60.5 bushels. The season average price per bushel dropped from $4.19 in 1988 to $4.05 in 1989 and the value of production declined $74.2 million from 1988 to $448.0 million.

Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1980	3,160	50.7	160,220	3.98
1981	3,050	55.2	168,350	3.92
1982	2,840	48.9	138,880	4.04
1983	2,690	64.2	172,570	3.69
1984	2,610	61.4	160,350	3.45
1985	2,690	47.7	128,250	3.41
1986	2,410	48.5	116,850	2.51
1987	2,015	56.7	114,285	2.82
1988	2,060	60.5	124,620	4.19
1989	2,270	48.7	110,610	4.05

U.S. Wheat Supply and Use



1988 preliminary. 1989 projected. Supply includes imports. Year beginning June 1.

All Wheat Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1980	49,668	134,651	184,319	32,044	98,753	130,797	16,022	61,936	77,958	6,409	40,102	46,511
1981	42,088	124,768	166,856	30,303	94,107	124,410	21,886	67,505	89,391	16,835	47,425	64,260
1982	44,442	124,614	169,056	31,942	102,873	134,815	26,387	77,856	104,243	20,832	64,282	85,114
1983	58,674	154,214	212,888	50,045	113,621	163,666	32,788	90,253	123,041	22,434	76,454	98,888
1984	52,916	147,996	200,912	40,088	116,865	156,953	28,863	93,006	121,869	22,449	85,775	108,224
1985	43,605	158,583	202,188	38,475	132,436	170,911	29,498	111,776	141,274	25,650	102,031	127,681
1986 1/	65,089	159,588	224,677	41,000	135,518	176,518	28,000	113,021	141,021	19,000	97,511	116,511
1987 1/	45,000	167,699	212,699	35,000	136,895	171,895	30,000	106,830	136,830	17,000	75,339	92,339
1988 1/	40,000	130,930	170,930	32,000	87,913	119,913	21,000	55,130	76,130	12,000	38,191	50,191
1989 1/	39,000	97,613	136,613	27,000	84,988	111,988	18,000	60,557	78,557	12,000	38,588	50,588

1/ Survey dates changed to September 1, December 1, March 1, and June 1 beginning with the 1986 crop.
* Following year.

All Wheat By County

County and District	1988				1989			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels	Bushels	Acres		Bushels	Bushels
West								
Clark	500	400	50.0	20,000	500	500	84.0	42,000
Island	500	500	70.0	35,000	500	500	80.0	40,000
Lewis	600	500	80.0	40,000	700	700	80.0	56,000
Skagit	3,900	3,800	80.0	304,000	3,600	3,400	82.4	280,000
Snohomish	500	400	85.0	34,000	1,100	1,000	60.0	60,000
Whatcom	1,900	300	80.0	24,000	1,000	800	67.5	54,000
Other Co.	1,100	1,100	70.0	77,000	600	600	50.0	30,000
Total	**9,000**	**7,000**	**76.3**	**534,000**	**8,000**	**7,500**	**74.9**	**562,000**
Central								
Benton	129,000	127,700	40.3	5,145,000	186,000	145,000	28.2	4,093,000
Chelan	2,200	1,900	41.1	78,000	2,400	2,300	27.4	63,000
Kittitas	5,000	4,700	72.8	342,000	5,700	5,700	76.1	434,000
Klickitat	39,000	37,600	49.5	1,860,000	56,700	53,000	37.5	1,989,000
Okanogan	10,500	9,800	46.2	453,000	13,200	10,500	27.6	290,000
Yakima	33,300	29,300	65.3	1,912,000	39,000	38,000	69.5	2,641,000
Total	**219,000**	**211,000**	**46.4**	**9,790,000**	**303,000**	**254,500**	**37.4**	**9,510,000**
Northeast								
Ferry	800	600	55.0	33,000	1,100	1,000	43.0	43,000
Pend Oreille	200	200	40.0	8,000	-	-	-	-
Spokane	93,300	89,600	75.7	6,780,000	166,800	126,000	53.6	6,757,000
Stevens	12,700	11,600	67.6	784,000	17,100	13,000	46.9	610,000
Total	**107,000**	**102,000**	**74.6**	**7,605,000**	**185,000**	**140,000**	**52.9**	**7,410,000**
East Central								
Adams	350,000	309,000	50.9	15,719,000	516,000	321,000	43.6	13,990,000
Douglas	170,000	164,000	49.5	8,122,000	211,500	170,000	27.1	4,605,000
Franklin	97,000	96,000	56.7	5,444,000	134,000	98,000	52.5	5,143,000
Grant	169,000	159,000	75.8	12,045,000	216,500	173,000	64.2	11,110,000
Lincoln	314,000	308,000	68.1	20,980,000	563,000	325,000	42.9	13,935,000
Total	**1,100,000**	**1,036,000**	**60.1**	**62,310,000**	**1,641,000**	**1,087,000**	**44.9**	**48,783,000**
Southeast								
Asotin	22,500	21,900	46.9	1,027,000	25,500	25,000	46.8	1,171,000
Columbia	77,000	74,800	55.0	4,112,000	81,700	80,500	59.9	4,824,000
Garfield	67,000	63,800	54.8	3,494,000	79,800	75,000	55.7	4,180,000
Walla Walla	185,000	178,000	61.1	10,874,000	216,000	200,000	52.3	10,465,000
Whitman	383,500	365,500	68.1	24,874,000	560,000	400,500	59.2	23,705,000
Total	**735,000**	**704,000**	**63.0**	**44,381,000**	**963,000**	**781,000**	**56.8**	**44,345,000**
State Total	**2,170,000**	**2,060,000**	**60.5**	**124,620,000**	**3,100,000**	**2,270,000**	**48.7**	**110,610,000**

- Not Applicable.

Winter Wheat

Winter wheat acreage seeded for harvest in 1989 was 2.10 million, an increase of 250,000 acres from 1988. Acreage harvested was 1.30 million as a result of a harsh February freeze. An arctic front moved into the State during the first week in February. Much of the snow cover had melted during the last week of January, when warm temperatures prevailed, leaving the crop unprotected in many areas. A cool spring inhibited growth to a large degree and the severity of the damage was not fully realized until mid-March, when apparently healthy fields began to die due to crown damage. Soil moisture improved by late spring from earlier season dry conditions, which improved the condition of the remaining winter wheat acreage. Wet August weather resulted in a delayed harvest in some areas of the State, particularly in counties on the Idaho border. By the end of August, 87 percent of the crop had been harvested compared to a five-year average of 94 percent. Some sprout damage, due to the delayed harvest and wet weather conditions, occurred.

The 1989 average yield per acre was 53 bushels compared to 62 bushels in 1988. Total production was 68.9 million bushels, which was the lowest level since 1962.

Acreage, Production, and Price

Year	Acres Harvested	Yield Per Acre	Production
	1,000	Bushels	1,000 Bushels
1980	2,750	52	143,000
1981	2,830	57	161,310
1982	2,560	49	125,440
1983	2,500	65	162,500
1984	2,400	62	148,800
1985	2,400	48	115,200
1986	2,100	49	102,900
1987	1,825	57	104,025
1988	1,750	62	108,500
1989	1,300	53	68,900

Spring Wheat

Freeze injury to the 1989 winter wheat crop compelled the State's wheat producers to seed the largest acreage of spring wheat since 1944. On April 2, only 21 percent of the crop had had been seeded compared to a five-year average of 43 percent, which was reflective of the cool spring weather and the delay in replanting damaged winter wheat acreage. Soil moisture was low early in the season, but improved by late spring. Crop development progressed ahead of normal with 80 percent of the crop headed by June 25, compared to 77 percent in 1988 and a five-year average of 72 percent. August rains delayed harvests in some areas and the delay resulted in some sprout damage.

Acreage seeded during 1989 was 1.00 million compared to 320,000 in 1988. The final harvested acreage was 970,000 and the average yield per acre was 43 bushels compared to 52 bushels in 1988. Total spring wheat production during 1989 was 41.7 million bushels.

Acreage, Yield, and Production

Year	Acres Harvested	Yield Per Acre	Production
	1,000	Bushels	1,000 Bushels
1980	410	42	17,220
1981	220	32	7,040
1982	280	48	13,440
1983	190	53	10,070
1984	210	55	11,550
1985	290	45	13,050
1986	310	45	13,950
1987	190	54	10,260
1988	310	52	16,120
1989	970	43	41,710

WHEAT VARIETY SURVEY-1990 CROP

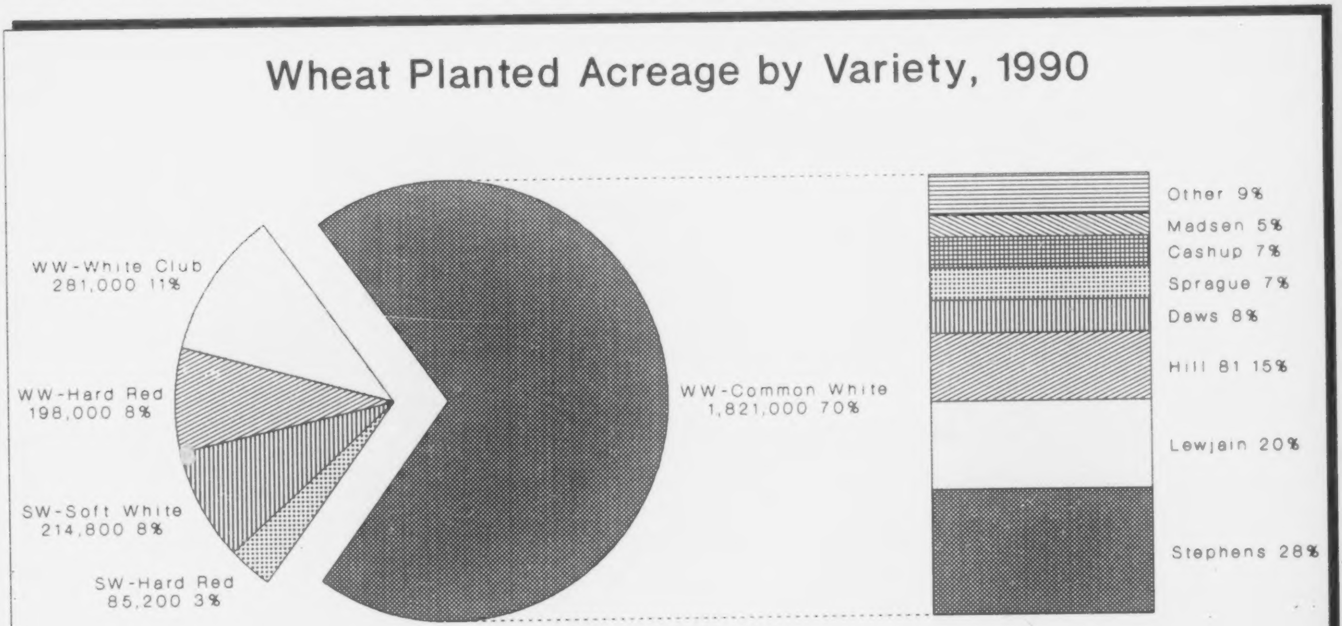
Common white remains the most popular class of winter wheat grown in the State with 1.82 million acres, an increase of 261,000 acres from the 1989 crop. Stephens continues to be the most popular variety with 518,700 acres or 28.5% of the common white class. Other popular varieties are Lewjain with 363,200 acres and Hill 81 with 279,700 acres. White club, the second most popular class, accounts for 10.8% of the total wheat with 281,000 acres. Tres and Moro continue to be the leaders in this class. Hard red winter acreage declined from 249,000 acres planted in 1989 to 198,000 acres this year. Hatton leads the class with 87,300 acres and Weston is second with 80,800 acres planted.

Spring wheat acreage is normal this year with 300,000 acres planted, compared with the five year average (from 1984-88) of 272,000 acres. Soft white accounts for 71.6% of the spring wheat. Penawawa is the most popular variety at 99,100 acres with Edwall second at 65,700 acres. Wampum dominates the hard red spring wheat with 29,200 acres or 34.3% of the 85,200 total hard red spring wheat acreage.

The Barley and Wheat Variety Survey for the 1990 crop was conducted as a nonprobability survey with the data collected by mail, telephone and personal interviews. The Washington Wheat Commission requested and funded county level estimates for wheat, so our survey procedures were modified to provide the additional data. There were 14 counties in the Wheat Commission's request that accounted for 98% of the wheat production in 1989. This is the first time that the acreage planted by variety has been estimated at the county level.

Cooperation for the survey was excellent. There were 2,819 reports tabulated, an increase of 35% from last year. The winter wheat acreage tabulated was 1,457,000 acres or 63% of our current estimated acreage, and 214,000 acres of spring wheat or 71% of the 1990 crop. There was no attempt to summarize multiple county operations in separate counties, and the entire operation was allocated to the county where the headquarters were located.

The estimated acreage by variety is more reliable at the state level than at the district and county level. The state summary of survey data was reviewed, and if there were less than 3 reports for a variety or if one operation had more than 60% of the estimated acreage, that variety was moved to the "other variety" category to avoid the possible disclosure of individual operations. This same procedure was used at the district and county levels, but left in the state total when there was no disclosure problem at the state level. For some varieties, the sum of the district estimates will be less than the state total due to the disclosure problem.



1990 ACRES PLANTED BY VARIETY, BY AGRICULTURAL STATISTICS DISTRICTS 1/, WASHINGTON

CLASS/VARIETY	WEST	CENTRAL	NORTHEAST	E.CENTRAL	SOUTHEAST	1990 STATE	1989 STATE
WINTER WHEAT				ACRES			
COMMON WHITE:							
STEPHENS	3,300	57,600	4,600	126,000	327,200	518,700	518,300
LEWJAIN	-	3,400	8,000	341,900	9,900	363,200	316,000
HILL 81	700	7,100	53,100	15,700	203,100	279,700	281,500
DAWS	-	1,800	13,900	63,400	57,800	136,900	131,800
SPRAGUE	-	3,000	-	128,900	1,400	133,300	121,400
CASHUP	1,000	-	3,100	30,500	93,300	127,900	92,300
MADSEN	-	2,100	15,000	10,300	63,900	91,300	N/A
MALCOLM	100	10,300	-	19,300	38,600	68,600	9,700
JOHN	-	1,300	-	18,900	-	20,200	7,100
STEPHENS-DAWS*	-	-	-	-	8,800	9,000	13,000
STEPHENS-HILL 81*	-	-	-	-	8,500	8,500	15,900
GAINES & NUGAINES	-	-	2,800	3,500	900	7,300	16,900
BASIN	400	-	-	4,300	1,200	5,900	3,000
DUSTY	-	-	-	-	3,200	5,000	13,900
DAWS-HILL 81*	-	-	-	-	2,400	4,900	N/A
HILL 81-MALCOLM*	-	-	-	-	2,800	2,800	N/A
LUKE	-	-	-	1,200	-	2,800	2,200
DAWS-LEWJAIN*	-	-	-	2,500	-	2,500	N/A
STEPHENS-LEWJAIN*	-	-	-	-	-	2,200	N/A
YAMHILL	300	-	-	-	-	400	2,000
OTHER COMMON 2/	-	700	4,800	14,800	17,000	28,500	15,000
UNKNOWN COMMON WHITE	-	200	300	200	700	1,400	N/A
TOTAL	**5,800**	**87,500**	**105,600**	**781,400**	**840,700**	**1,821,000**	**1,560,000**
WHITE CLUB:							
TRES	-	3,000	2,400	101,800	16,400	123,600	156,500
MORO	-	2,300	-	87,800	1,500	91,900	101,800
HYAK	-	1,700	-	39,500	5,300	46,600	N/A
TYEE	-	3,100	-	5,000	-	8,100	8,400
CREW	-	900	600	3,800	1,300	6,600	20,700
PAHA	-	-	-	2,500	-	2,500	N/A
OTHER CLUB 3/	-	300	400	0	1,300	1,600	3,600
UNKNOWN CLUB	-	100	-	0	-	100	N/A
TOTAL	**0**	**11,400**	**3,400**	**240,400**	**25,800**	**281,000**	**291,000**
HARD RED:							
HATTON	-	7,600	-	78,600	-	87,300	98,600
WESTON	-	57,600	-	23,100	-	80,800	113,300
WANSER	-	10,800	-	-	-	18,600	20,500
ANDREWS	-	-	-	5,000	-	5,000	4,600
VICTORY	-	-	-	900	2,200	3,100	N/A
BOUNTY	-	-	-	-	-	200	N/A
BATUM	-	-	-	-	-	0	5,200
OTHER HARD RED 4/	-	100	-	10,600	1,200	2,700	6,800
UNKNOWN HARD RED	200	-	-	-	100	300	N/A
TOTAL	**200**	**76,100**	**0**	**118,200**	**3,500**	**198,000**	**249,000**
TOTAL WINTER	**6,000**	**175,000**	**109,000**	**1,140,000**	**870,000**	**2,300,000**	**2,100,000**

See footnotes on page 47.

1990 ACRES PLANTED BY VARIETY, BY AGRICULTURAL STATISTICS DISTRICTS 1/, WASHINGTON

CLASS/VARIETY	WEST	CENTRAL	NORTHEAST	E.CENTRAL	SOUTHEAST	1990 STATE	1989 STATE
				ACRES			
SPRING WHEAT							
SOFT WHITE:							
PENAWAWA	-	8,200	8,300	47,500	35,100	99,100	108,400
EDWALL	-	1,000	7,900	42,700	14,100	65,700	240,400
WS-1	-	-	-	9,000	6,200	15,200	11,800
WAVERLY	-	2,800	200	4,600	600	8,200	61,700
DIRKWIN	700	1,400	-	-	2,400	4,800	23,200
FIELDWIN	-	3,700	-	-	-	3,800	12,300
FIELDER	-	1,900	100	700	300	3,000	33,000
BLISS	-	-	500	1,100	-	2,500	100,500
SPRITE	-	-	-	1,200	1,100	2,400	4,000
OWENS	-	-	-	-	1,700	2,000	86,400
URQUIE	-	-	-	1,400	-	1,400	14,700
TWIN	-	-	-	300	400	1,200	44,800
TREASURE	-	-	-	-	1,100	1,100	N/A
WADUAL	-	-	-	-	600	800	N/A
OTHER SOFT 5/	300	700	500	1,300	1,200	1,600	19,900
UNKNOWN SOFT	-	500	200	1,000	300	2,000	18,900
TOTAL	**1,000**	**20,200**	**17,700**	**110,800**	**65,100**	**214,800**	**780,000**
HARD RED:							
WAMPUM	-	22,000	-	7,200	-	29,200	96,500
WESTBRED 906R	-	1,700	1,300	7,100	3,700	13,800	33,500
YECORA ROJO	-	3,800	-	6,000	-	10,300	20,200
WESTBRED 926	-	1,500	500	5,300	2,200	9,500	14,000
NOMAD	-	-	-	3,900	3,400	7,700	6,200
MCKAY	-	1,600	-	2,000	-	3,600	4,200
TAMMY	-	-	-	1,400	-	2,000	5,300
NEWANA	-	-	-	1,500	-	1,600	10,700
CZAR	-	-	-	1,500	-	1,500	N/A
BUTTE 86	-	-	-	500	-	900	3,700
BRONZE CHIEF	-	200	-	600	-	600	N/A
WESTBRED 911R	-	-	-	-	-	600	N/A
SPILLMAN	-	-	-	-	-	200	N/A
KODIAK	-	-	-	-	-	-	2,400
OTHER HARD RED 6/	500	2,500	-	1,400	400	2,200	16,700
UNKNOWN HARD RED	-	500	-	800	200	1,500	6,600
TOTAL	**500**	**33,800**	**1,800**	**39,200**	**9,900**	**85,200**	**220,000**
TOTAL SPRING	**1,500**	**54,000**	**19,500**	**150,000**	**75,000**	**300,000**	**1,000,000**
TOTAL ALL WHEAT	**7,500**	**229,000**	**128,500**	**1,290,000**	**945,000**	**2,600,000**	**3,100,000**

See footnotes on page 47.

1990 ACRES PLANTED BY VARIETY, BY COUNTIES 1/, WASHINGTON

CLASS/VARIETY	ADAMS	ASOTIN	BENTON	COLUMBIA	DOUGLAS	FRANKLIN	GARFIELD
WINTER WHEAT				ACRES			
COMMON WHITE:							
STEPHENS	38,500	14,000	21,700	37,400	700	23,100	14,100
LEWJAIN	107,800	1,600	-	-	9,700	3,500	2,000
HILL 81	3,000	3,500	-	21,200	-	-	33,800
DAWS	4,100	-	-	6,300	800	200	2,500
SPRAGUE	-	-	-	-	118,200	-	-
CASHUP	9,400	600	-	2,600	6,500	-	8,200
MADSEN	1,000	500	-	10,100	-	1,600	1,400
MALCOLM	4,500	-	-	-	-	2,900	3,000
JOHN	-	-	-	-	17,200	-	-
STEPHENS-DAWS*	-	-	-	-	-	-	-
STEPHENS-HILL 81*	-	-	-	-	-	-	-
GAINES & NUGAINES	1,600	-	-	-	-	-	-
BASIN	-	-	-	-	-	700	-
DUSTY	-	2,100	-	-	-	-	-
DAWS-HILL 81*	-	-	-	-	-	-	-
HILL 81-MALCOLM*	-	-	-	-	-	-	-
LUKE	-	-	-	-	-	-	-
DAWS-LEWJAIN*	-	-	-	-	-	-	-
STEPHENS-LEWJAIN*	-	-	-	-	-	-	-
YAMHILL	-	-	-	-	-	-	-
OTHER COMMON 2/	300	4,200	12,000	11,100	800	800	7,900
UNKNOWN COMMON WHITE	-	-	-	-	-	-	-
TOTAL	**170,200**	**26,500**	**33,700**	**88,700**	**153,900**	**32,800**	**72,900**
WHITE CLUB:							
TRES	43,400	-	-	1,000	-	9,000	2,400
MORO	52,700	-	-	-	2,500	13,500	-
HYAK	3,700	700	-	-	-	-	600
TYEE	2,800	-	-	-	-	-	-
CREW	1,400	-	-	-	-	-	1,100
PAHA	1,300	-	-	-	-	-	-
OTHER CLUB 3/	0	700	-	300	200	100	-
UNKNOWN CLUB	0	-	100	-	-	-	-
TOTAL	**105,300**	**1,400**	**100**	**1,300**	**2,700**	**22,600**	**4,100**
HARD RED:							
HATTON	32,000	-	7,500	-	4,000	24,400	-
WESTON	1,500	-	56,700	-	1,400	19,800	-
WANSER	-	-	10,800	-	-	-	-
ANDREWS	-	-	-	-	3,800	-	-
VICTORY	-	-	-	-	-	-	-
BOUNTY	-	-	-	-	-	-	-
OTHER HARD RED 4/	1,000	100	100	-	4,200	5,400	-
UNKNOWN HARD RED	-	-	-	-	-	-	-
TOTAL	**34,500**	**100**	**75,100**	**0**	**13,400**	**49,600**	**0**
TOTAL WINTER	**310,000**	**28,000**	**108,900**	**90,000**	**170,000**	**105,000**	**77,000**

See footnotes on page 47.

1990 ACRES PLANTED BY VARIETY, BY COUNTIES 1/, WASHINGTON

CLASS/VARIETY	GRANT	KLICKITAT	LINCOLN	SPOKANE	WALLA WALLA	WHITMAN	YAKIMA
WINTER WHEAT				ACRES			
COMMON WHITE:							
STEPHENS	47,300	20,600	16,400	4,200	151,700	110,000	14,900
LEWJAIN	42,800	1,200	178,100	4,700	-	6,100	-
HILL 81	1,700	2,200	9,900	50,600	21,700	122,900	-
DAWS	17,000	-	41,300	12,400	35,000	13,600	-
SPRAGUE	7,800	-	2,900	-	-	-	-
CASHUP	8,500	-	5,700	2,900	-	81,200	-
MADSEN	2,800	1,100	4,900	14,900	12,200	39,700	400
MALCOLM	3,700	4,800	8,200	-	-	33,000	1,000
JOHN	-	-	1,400	-	-	-	-
STEPHENS-DAWS*	-	-	-	-	-	3,600	-
STEPHENS-HILL 81*	-	-	-	-	-	5,200	-
GAINES & NUGAINES	-	-	-	2,500	-	-	-
BASIN	1,400	-	1,900	-	-	1,200	-
DUSTY	-	-	-	-	-	-	-
DAWS-HILL 81*	-	-	-	-	-	-	-
HILL 81-MALCOLM*	-	-	-	-	-	2,800	-
LUKE	-	-	1,200	-	-	-	-
DAWS-LEWJAIN*	-	-	2,500	-	-	-	-
STEPHENS-LEWJAIN*	-	-	-	-	-	-	-
YAMHILL	-	-	-	-	-	-	-
OTHER COMMON 2/	2,600	1,000	14,300	4,000	4,600	7,400	700
UNKNOWN COMMON WHITE	200	-	-	100	100	600	-
TOTAL	**135,800**	**30,900**	**288,700**	**96,300**	**225,300**	**427,300**	**17,000**
WHITE CLUB:							
TRES	21,500	2,500	27,900	2,400	7,200	5,100	-
MORO	13,800	-	5,300	-	-	-	-
HYAK	15,200	-	20,500	-	3,000	1,000	-
TYEE	-	3,100	1,100	-	-	-	-
CREW	1,800	900	400	-	-	-	-
PAHA	-	-	-	-	-	-	-
OTHER CLUB 3/	2,300	600	-	300	1,200	1,500	1,000
UNKNOWN CLUB	-	-	-	-	-	-	-
TOTAL	**54,600**	**7,100**	**55,200**	**2,700**	**11,400**	**7,600**	**1,000**
HARD RED:							
HATTON	17,400	-	800	-	-	-	-
WESTON	-	-	-	-	-	-	900
WANSER	-	-	-	-	-	-	-
ANDREWS	1,200	-	-	-	-	-	-
VICTORY	-	-	-	-	2,100	-	-
BOUNTY	-	-	-	-	-	-	-
OTHER HARD RED 4/	1,000	-	300	-	1,200	-	100
UNKNOWN HARD RED	-	-	-	-	-	100	-
TOTAL	**19,600**	**0**	**1,100**	**0**	**3,300**	**100**	**1,000**
TOTAL WINTER	**210,000**	**38,000**	**345,000**	**99,000**	**240,000**	**435,000**	**19,000**

See footnotes on page 47.

1990 ACRES PLANTED BY VARIETY, BY COUNTIES 1/, WASHINGTON

CLASS/VARIETY	ADAMS	ASOTIN	BENTON	COLUMBIA	DOUGLAS	FRANKLIN	GARFIELD
SPRING WHEAT				ACRES			
SOFT WHITE:							
PENAWAWA	4,400	300	1,000	1,900	11,800	1,700	2,400
EDWALL	10,000	200	-	2,200	1,700	200	2,900
WS-1	3,500	-	-	-	-	-	-
WAVERLEY	-	-	-	-	1,400	1,000	-
DIRKWIN	-	-	-	-	-	-	200
FIELDWIN	-	-	3,500	-	-	-	-
FIELDER	-	-	-	-	-	-	-
BLISS	-	-	-	-	-	-	-
SPRITE	-	-	-	-	-	-	-
OWENS	-	-	-	-	-	-	-
URQUIE	-	-	-	-	1,400	-	-
TWIN	-	-	-	-	-	-	-
TREASURE	-	-	-	-	-	-	-
WADUAL	-	-	-	-	-	-	-
OTHER SOFT 5/	2,000	300	300	1,100	-	1,400	-
UNKNOWN SOFT	500	100	-	100	-	100	-
TOTAL	**20,400**	**900**	**4,800**	**5,300**	**16,300**	**4,400**	**5,500**
HARD RED:							
WAMPUM	-	-	20,100	-	-	6,800	-
WESTBRED 906R	1,900	400	900	-	-	1,600	-
YECORA ROJO	-	-	-	-	-	2,900	-
WESTBRED 926	400	-	-	-	-	900	-
NOMAD	3,100	-	-	-	-	-	-
MCKAY	-	-	-	-	2,000	-	-
TAMMY	-	-	-	-	-	-	-
NEWANA	1,200	-	-	-	-	-	-
CZAR	-	-	-	-	-	-	-
BUTTE 86	-	-	-	-	-	-	-
BRONZE CHIEF	-	-	-	-	-	-	-
WESTBRED 911R	-	-	-	-	-	-	-
SPILLMAN	-	-	-	-	-	-	-
OTHER HARD RED 6/	1,900	200	1,900	500	700	1,100	500
UNKNOWN HARD RED	100	-	300	200	-	300	-
TOTAL	**8,600**	**600**	**23,200**	**700**	**2,700**	**13,600**	**500**
TOTAL SPRING	**29,000**	**1,500**	**28,000**	**6,000**	**19,000**	**18,000**	**6,000**

See footnotes on page 47.

1990 ACRES PLANTED BY VARIETY, BY COUNTIES 1/, WASHINGTON

CLASS/VARIETY	GRANT	KLICKITAT	LINCOLN	SPOKANE	WALLA WALLA	WHITMAN	YAKIMA
SPRING WHEAT				ACRES			
SOFT WHITE:							
PENAWAWA	11,800	2,700	17,800	8,000	3,800	26,700	3,100
EDWALL	5,900	-	24,800	5,300	600	8,200	-
WS-1	-	-	4,400	-	5,200	-	-
WAVERLEY	1,800	2,200	300	-	-	500	-
DIRKWIN	-	1,400	-	-	2,100	-	-
FIELDWIN	-	-	-	-	-	-	-
FIELDER	300	-	-	-	-	200	-
BLISS	-	-	200	500	-	-	-
SPRITE	1,000	-	-	-	-	1,100	-
OWENS	-	-	-	-	-	900	-
URQUIE	-	-	-	-	-	-	-
TWIN	-	-	-	-	-	-	-
TREASURE	-	-	-	-	-	1,100	-
WADUAL	-	-	-	-	-	300	-
OTHER SOFT 5/	600	500	400	700	600	2,000	900
UNKNOWN SOFT	200	-	200	200	-	100	100
TOTAL	**21,600**	**6,800**	**48,100**	**14,700**	**12,300**	**41,100**	**4,100**
HARD RED:							
WAMPUM	-	-	-	-	-	-	1,900
WESTBRED 906R	2,500	400	1,100	1,300	1,500	1,200	-
YECORA ROJO	2,400	-	-	-	-	-	3,800
WESTBRED 926	3,900	200	-	500	-	1,400	-
NOMAD	-	-	-	-	3,400	-	-
MCKAY	-	-	-	-	-	-	-
TAMMY	-	-	700	-	-	-	-
NEWANA	-	-	-	-	-	-	-
CZAR	-	-	-	-	-	-	-
BUTTE 86	-	-	-	-	-	-	-
BRONZE CHIEF	-	-	-	-	-	-	-
WESTBRED 911R	-	-	-	-	-	-	-
SPILLMAN	-	-	-	-	-	-	-
OTHER HARD RED 6/	2,400	100	900	-	300	300	2,500
UNKNOWN HARD RED	200	-	200	-	-	-	200
TOTAL	**11,400**	**700**	**2,900**	**1,800**	**5,200**	**2,900**	**8,400**
TOTAL SPRING	**33,000**	**7,500**	**51,000**	**16,500**	**17,500**	**44,000**	**12,500**

1/ The sum of the District may not add to the State total to avoid disclosure of individual operations.

2/ Includes Basin-Stephens, Cashup-Hill 81, Cashup-Madsen-Malcolm, and Daws-Stephens-Hill 81 mixes.

3/ Includes Barbee and Jacmar varieties.

4/ Includes Batum, Hawk, and Winridge varieties.

5/ Includes Bliss-Panawawa-Marfed mix, Ide-Ed and Wakanz varieties.

6/ Includes Bateins, Katepwa, and Laura varieties.

* Mixed varieties

N/A Insufficient acreage planted to report.

Winter Wheat by County, 1988

County And District	All				Irrigated			Dryland		
	Acreage		Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Planted	Harvested								
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clark	500	400	50.0	20,000	-	-	-	400	50.0	20,000
Island	500	500	70.0	35,000	-	-	-	500	70.0	35,000
Lewis	600	500	80.0	40,000	-	-	-	500	80.0	40,000
Skagit	2,800	2,700	87.0	235,000	-	-	-	2,700	87.0	235,000
Snohomish	500	400	85.0	34,000	-	-	-	400	85.0	34,000
Whatcom	1,900	300	80.0	24,000	-	-	-	300	80.0	24,000
Other Co.	200	200	60.0	12,000	-	-	-	200	60.0	12,000
Total	**7,000**	**5,000**	**80.0**	**400,000**	-	-	-	**5,000**	**80.0**	**400,000**
Central										
Benton	89,000	88,800	40.0	3,552,000	1,400	110.0	154,000	87,400	38.9	3,398,000
Chelan	1,200	1,000	42.0	42,000	-	-	-	1,000	42.0	42,000
Kittitas	2,000	1,700	60.0	102,000	600	110.0	66,000	1,100	32.7	36,000
Klickitat	30,000	29,000	46.0	1,335,000	400	75.0	30,000	28,600	45.6	1,305,000
Okanogan	6,000	5,500	50.0	275,000	300	50.0	15,000	5,200	50.0	260,000
Yakima	24,800	21,000	58.0	1,218,000	4,300	110.0	473,000	16,700	44.6	745,000
Total	**153,000**	**147,000**	**44.4**	**6,524,000**	**7,000**	**105.4**	**738,000**	**140,000**	**41.3**	**5,786,000**
Northeast										
Ferry	400	300	60.0	18,000	-	-	-	300	60.0	18,000
Spokane	85,600	82,500	78.0	6,439,000	1,500	90.0	135,000	81,000	77.8	6,304,000
Stevens	9,000	8,200	77.0	631,000	500	92.0	46,000	7,700	76.0	585,000
Total	**95,000**	**91,000**	**77.9**	**7,088,000**	**2,000**	**90.5**	**181,000**	**89,000**	**77.6**	**6,907,000**
East Central										
Adams	305,000	264,500	51.0	13,492,000	31,000	93.0	2,882,000	233,500	45.4	10,610,000
Douglas	140,000	135,000	52.0	7,020,000	1,800	65.0	117,000	133,200	51.8	6,903,000
Franklin	87,000	86,500	55.0	4,760,000	12,700	109.0	1,384,000	73,800	45.7	3,376,000
Grant	129,000	121,000	75.0	9,081,000	54,000	106.0	5,722,000	67,000	50.1	3,359,000
Lincoln	278,000	273,000	71.0	19,370,000	23,000	95.0	2,185,000	250,000	68.7	17,185,000
Total	**939,000**	**880,000**	**61.0**	**53,723,000**	**122,500**	**100.3**	**12,290,000**	**757,500**	**54.7**	**41,433,000**
Southeast										
Asotin	20,000	19,500	49.0	955,000	-	-	-	19,500	49.0	955,000
Columbia	72,000	70,000	56.0	3,920,000	400	80.0	32,000	69,600	55.9	3,888,000
Garfield	62,000	59,000	56.0	3,302,000	400	60.0	24,000	58,600	55.9	3,278,000
Walla Walla	155,000	149,000	64.0	9,539,000	8,800	75.0	660,000	140,200	63.3	8,879,000
Whitman	347,000	329,500	70.0	23,049,000	900	80.0	72,000	328,600	69.9	22,977,000
Total	**656,000**	**627,000**	**65.0**	**40,765,000**	**10,500**	**75.0**	**788,000**	**616,500**	**64.8**	**39,977,000**
State Total	**1,850,000**	**1,750,000**	**62.0**	**108,500,000**	**142,000**	**98.6**	**13,997,000**	**1,608,000**	**58.8**	**94,503,000**

- Not Applicable.

Winter Wheat by County, 1989

County And District	All				Irrigated			Dryland		
	Acreage		Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Planted	Harvested								
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clark	500	500	84.0	42,000	-	-	-	500	84.0	42,000
Island	500	500	80.0	40,000	-	-	-	500	80.0	40,000
Lewis	700	700	80.0	56,000	-	-	-	700	80.0	56,000
Skagit	3,200	3,000	85.0	255,000	-	-	-	3,000	85.0	255,000
Snohomish	1,100	1,000	60.0	60,000	-	-	-	1,000	60.0	60,000
Whatcom	1,000	800	67.5	54,000	-	-	-	800	67.5	54,000
Total	**7,000**	**6,500**	**78.0**	**507,000**	-	-	-	**6,500**	**78.0**	**507,000**
Central										
Benton	106,000	67,000	32.0	2,141,000	6,000	101.0	606,000	61,000	25.2	1,535,000
Chelan	1,400	1,300	30.0	39,000	-	-	-	1,300	30.0	39,000
Kittitas	2,200	2,200	60.5	133,000	900	115.6	104,000	1,300	22.3	29,000
Klickitat	43,200	40,000	39.0	1,560,000	4,000	75.0	300,000	36,000	35.0	1,260,000
Okanogan	7,700	5,500	30.0	165,000	300	63.3	19,000	5,200	28.1	146,000
Yakima	19,500	19,000	68.0	1,292,000	9,800	106.0	1,039,000	9,200	27.5	253,000
Total	**180,000**	**135,000**	**39.5**	**5,330,000**	**21,000**	**98.5**	**2,068,000**	**114,000**	**28.6**	**3,262,000**
Northeast										
Ferry	600	500	38.0	19,000	-	-	-	500	38.0	19,000
Spokane	120,500	81,000	57.0	4,621,000	1,100	90.0	99,000	79,900	56.6	4,522,000
Stevens	11,900	8,000	52.5	420,000	400	60.0	24,000	7,600	52.1	396,000
Total	**133,000**	**89,500**	**56.5**	**5,060,000**	**1,500**	**82.0**	**123,000**	**88,000**	**56.1**	**4,937,000**
East Central										
Adams	315,000	126,000	44.5	5,610,000	26,000	91.0	2,366,000	100,000	32.4	3,244,000
Douglas	155,000	115,000	31.0	3,560,000	1,000	58.0	58,000	114,000	30.7	3,502,000
Franklin	95,000	60,000	49.0	2,938,000	19,000	100.0	1,900,000	41,000	25.3	1,038,000
Grant	150,000	108,000	65.0	7,015,000	50,000	106.0	5,299,000	58,000	29.6	1,716,000
Lincoln	335,000	105,000	48.0	5,035,000	10,000	66.0	660,000	95,000	46.1	4,375,000
Total	**1,050,000**	**514,000**	**47.0**	**24,158,000**	**106,000**	**97.0**	**10,283,000**	**408,000**	**34.0**	**13,875,000**
Southeast										
Asotin	23,500	23,000	48.0	1,105,000	-	-	-	23,000	48.0	1,105,000
Columbia	77,000	76,000	61.0	4,635,000	400	72.5	29,000	75,600	60.9	4,606,000
Garfield	74,500	70,000	57.0	3,990,000	400	65.0	26,000	69,600	57.0	3,964,000
Walla Walla	175,000	160,000	56.0	8,965,000	10,100	86.0	869,000	149,900	54.0	8,096,000
Whitman	380,000	226,000	67.0	15,150,000	600	70.0	42,000	225,400	67.0	15,108,000
Total	**730,000**	**555,000**	**61.0**	**33,845,000**	**11,500**	**84.0**	**966,000**	**543,500**	**60.5**	**32,879,000**
State Total	**2,100,000**	**1,300,000**	**53.0**	**68,900,000**	**140,000**	**96.0**	**13,440,000**	**1,160,000**	**47.8**	**55,460,000**

- Not applicable.

Spring Wheat by County, 1988

County And District	All				Irrigated			Dryland		
	Acreage		Yld	Production	Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Planted	Harvested								
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Skagit	1,100	1,100	62.7	69,000	-	-	-	1,100	62.7	69,000
Other Co.	900	900	72.2	65,000	-	-	-	900	72.2	65,000
Total	**2,000**	**2,000**	**67.0**	**134,000**	-	-	-	**2,000**	**67.0**	**134,000**
Central										
Benton	40,000	38,900	41.0	1,593,000	5,900	96.6	570,000	33,000	31.0	1,023,000
Chelan	1,000	900	40.0	36,000	-	-	-	900	40.0	36,000
Kittitas	3,000	3,000	80.0	240,000	2,100	96.2	202,000	900	42.2	38,000
Klickitat	9,000	8,600	61.0	525,000	4,000	88.0	352,000	4,600	37.6	173,000
Okanogan	4,500	4,300	41.4	178,000	500	80.0	40,000	3,800	36.3	138,000
Yakima	8,500	8,300	83.6	694,000	6,000	101.0	606,000	2,300	38.3	88,000
Total	**66,000**	**64,000**	**51.0**	**3,266,000**	**18,500**	**95.7**	**1,770,000**	**45,500**	**32.9**	**1,496,000**
Northeast										
Ferry	400	300	50.0	15,000	-	-	-	300	50.0	15,000
Pend Oreille	200	200	40.0	8,000	-	-	-	200	40.0	8,000
Spokane	7,700	7,100	48.0	341,000	700	51.4	36,000	6,400	47.7	305,000
Stevens	3,700	3,400	45.0	153,000	300	60.0	18,000	3,100	43.5	135,000
Total	**12,000**	**11,000**	**47.0**	**517,000**	**1,000**	**54.0**	**54,000**	**10,000**	**46.3**	**463,000**
East Central										
Adams	45,000	44,500	50.0	2,227,000	20,500	75.4	1,545,000	24,000	28.4	682,000
Douglas	30,000	29,000	38.0	1,102,000	3,000	65.0	195,000	26,000	34.9	907,000
Franklin	10,000	9,500	72.0	684,000	7,500	80.0	600,000	2,000	42.0	84,000
Grant	40,000	38,000	78.0	2,964,000	29,000	87.0	2,522,000	9,000	49.1	442,000
Lincoln	36,000	35,000	46.0	1,610,000	5,000	77.0	385,000	30,000	40.8	1,225,000
Total	**161,000**	**156,000**	**55.0**	**8,587,000**	**65,000**	**80.7**	**5,247,000**	**91,000**	**36.7**	**3,340,000**
Southeast										
Asotin	2,500	2,400	30.0	72,000	-	-	-	2,400	30.0	72,000
Columbia	5,000	4,800	40.0	192,000	-	-	-	4,800	40.0	192,000
Garfield	5,000	4,800	40.0	192,000	-	-	-	4,800	40.0	192,000
Walla Walla	30,000	29,000	46.0	1,335,000	3,000	61.0	183,000	26,000	44.3	1,152,000
Whitman	36,500	36,000	50.7	1,825,000	500	96.0	48,000	35,500	50.1	1,777,000
Total	**79,000**	**77,000**	**47.0**	**3,616,000**	**3,500**	**66.0**	**231,000**	**73,500**	**46.1**	**3,385,000**
State Total	**320,000**	**310,000**	**52.0**	**16,120,000**	**88,000**	**83.0**	**7,302,000**	**222,000**	**39.7**	**8,818,000**

- Not Applicable.

Spring Wheat by County, 1989

County And District	All				Irrigated			Dryland		
	Acreage				Acreage Harvested	Yld	Production	Acreage Harvested	Yld	Production
	Planted	Harvested	Yld	Production						
	Acres		Bushels		Acres		Bushels	Acres		Bushels
West										
Skagit	400	400	62.5	25,000	-	-	-	400	62.5	25,000
Other Co.	600	600	50.0	30,000	-	-	-	600	50.0	30,000
Total	**1,000**	**1,000**	**55.0**	**55,000**	-	-	-	**1,000**	**55.0**	**55,000**
Central										
Benton	80,000	78,000	25.0	1,952,000	10,000	80.0	800,000	68,000	16.9	1,152,000
Chelan	1,000	1,000	24.0	24,000	-	-	-	1,000	24.0	24,000
Kittitas	3,500	3,500	86.0	301,000	3,200	91.6	293,000	300	26.7	8,000
Klickitat	13,500	13,000	33.0	429,000	1,500	80.0	120,000	11,500	26.9	309,000
Okanogan	5,500	5,000	25.0	125,000	300	43.3	13,000	4,700	23.8	112,000
Yakima	19,500	19,000	71.0	1,349,000	13,000	93.1	1,210,000	6,000	23.2	139,000
Total	**123,000**	**119,500**	**35.0**	**4,180,000**	**28,000**	**87.0**	**2,436,000**	**91,500**	**19.1**	**1,744,000**
Northeast										
Ferry	500	500	48.0	24,000	-	-	-	500	48.0	24,000
Spokane	46,300	45,000	47.5	2,136,000	2,200	76.4	168,000	42,800	46.0	1,968,000
Stevens	5,200	5,000	38.0	190,000	300	40.0	12,000	4,700	37.9	178,000
Total	**52,000**	**50,500**	**46.5**	**2,350,000**	**2,500**	**72.0**	**180,000**	**48,000**	**45.2**	**2,170,000**
East Central										
Adams	201,000	195,000	43.0	8,380,000	51,000	88.5	4,514,000	144,000	26.8	3,866,000
Douglas	56,500	55,000	19.0	1,045,000	-	-	-	55,000	19.0	1,045,000
Franklin	39,000	38,000	58.0	2,205,000	18,000	92.0	1,656,000	20,000	27.5	549,000
Grant	66,500	65,000	63.0	4,095,000	40,000	85.0	3,400,000	25,000	27.8	695,000
Lincoln	228,000	220,000	40.5	8,900,000	20,000	74.0	1,480,000	200,000	37.1	7,420,000
Total	**591,000**	**573,000**	**43.0**	**24,625,000**	**129,000**	**85.7**	**11,050,000**	**444,000**	**30.6**	**13,575,000**
Southeast										
Asotin	2,000	2,000	33.0	66,000	-	-	-	2,000	33.0	66,000
Columbia	4,700	4,500	42.0	189,000	-	-	-	4,500	42.0	189,000
Garfield	5,300	5,000	38.0	190,000	-	-	-	5,000	38.0	190,000
Walla Walla	41,000	40,000	37.5	1,500,000	4,500	67.6	304,000	35,500	33.7	1,196,000
Whitman	180,000	174,500	49.0	8,555,000	1,000	60.0	60,000	173,500	49.0	8,495,000
Total	**233,000**	**226,000**	**46.5**	**10,500,000**	**5,500**	**66.2**	**364,000**	**220,500**	**46.0**	**10,136,000**
State Total	**1,000,000**	**970,000**	**43.0**	**41,710,000**	**165,000**	**85.0**	**14,030,000**	**805,000**	**34.4**	**27,680,000**

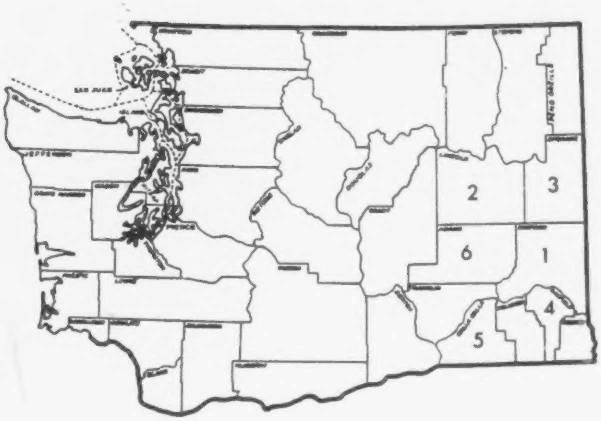
- Not Applicable.

BARLEY

The arctic temperatures experienced across the State during the first week of February damaged winter barley stands due to a lack of snow cover. The full extent of the damage was not realized until the latter part of March. Winter barley accounted for less than 10 percent of the state's total acreage.

Wet soil conditions were present in the spring in many areas, which slowed spring planting. The crop condition of irrigated barley improved through the growing season from 84% of the crop rated as poor, 3% fair, and 13% good on April 2, 1989 to 10% rated as fair and 90% rated good on July 15, 1989. Dryland barley conditions improved from 36% of the crop rated very poor, 41% poor, 13% fair and 10% good on April 2, 1989 to 80% rated fair and 20% rated good on July 15, 1989. Harvest started in mid-July and progressed generally behind the 5-year seasonal pace. Harvest was virtually completed by September 10, 1989, slightly later than normal.

Acres planted and harvested declined for the fourth straight year. Acres harvested in 1989 were 12% below the 1988 harvested acreage. The yield of 58 bushels per acre is 6% below the 1988 yield of 62 bushels per acre.



Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1980	430	75	32,250	2.91
1981	760	58	44,080	2.50
1982	810	61	49,410	2.23
1983	850	64	54,400	2.58
1984	980	65	63,700	2.25
1985	1,180	48	56,640	1.95
1986	900	50	45,000	1.67
1987	645	55	35,475	1.87
1988	560	62	34,720	2.45
1989	490	58	28,420	2.30

Barley Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1980	6,773	19,696	26,469	4,193	14,253	18,446	2,258	5,231	7,489	968	2,376	3,344
1981	9,698	24,112	33,810	6,612	14,166	20,778	3,967	5,432	9,399	1,763	4,046	5,809
1982	9,882	29,036	38,918	6,423	23,419	29,842	3,459	14,607	18,066	2,223	12,146	14,369
1983	13,600	33,846	47,446	8,160	20,947	29,107	3,264	16,494	19,758	2,176	11,612	13,788
1984	14,651	35,772	50,423	9,555	22,928	32,483	5,733	17,387	23,120	3,822	14,519	18,341
1985	16,992	36,719	53,711	11,328	28,563	39,891	1/	1/	1/	5,664	20,791	26,455
19861/2/										3,000	21,485	24,485
19871/2/										2,700	8,859	11,559
1988 2/	8,400	25,840	34,240	5,200	19,300	24,500	3,300	13,071	16,371	2,900	5,718	8,618
1989 2/	5,700	18,916	24,616	5,000	16,449	21,449	2,100	6,788	8,888	1,050	4,689	5,739

1/ Estimates discontinued for all quarters except June.

2/ Survey dates changed to September 1, December 1, March 1, and June 1 beginning with the 1986 crop.

* Following Year.

BARLEY VARIETY SURVEY-1990 CROP

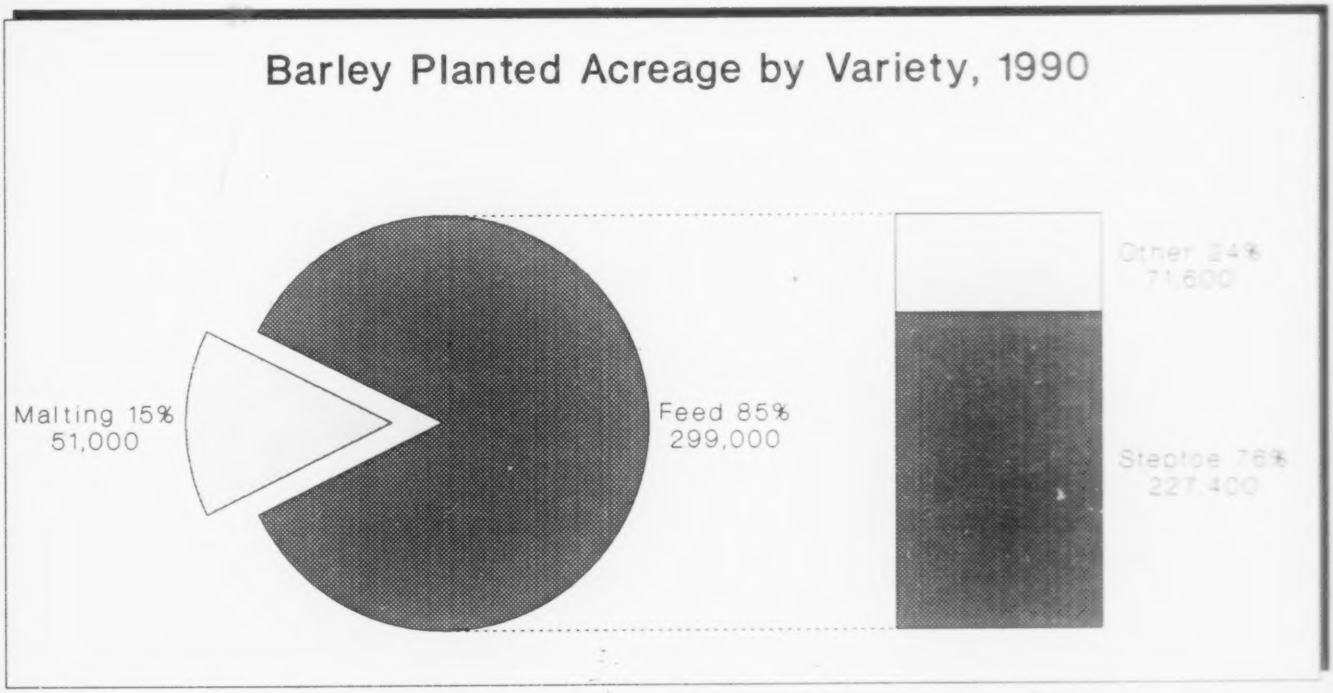
Barley acreage planted in Washington for 1990 declined for the fifth consecutive year. This year's estimated 350,000 planted acres is down 30% from last year's 500,000 acres and is only 29% of the record high of 1.2 million acres planted in 1985.

Feed type barley varieties continue to be the most popular type of barley grown in Washington. The 299,000 acres of feed barley accounts for 85.4% of the total barley grown in the State. Steptoe is again the most popular feed variety, comprising 227,400 acres, or 76%, of the feed barley. Camelot shows a large increase in acreage from 5,600 acres in 1989 to 17,300 acres in 1990. Other varieties gaining popularity are Kamiak, Cougbar, and Boyer with 8,100, 5,600 and 5,400 acres respectively.

Malting barley decreased in acreage, but comprises a higher percent of the state's total when compared with 1989. The acreage planted to malting varieties is 51,000 acres, 14.6% of the total barley planted in the state, and is a decrease of 3,600 acres from 1989. Harrington continues to be the most popular malting barley and accounts for 55.7% of the malting barley or 28,400 acres. Morex is the second most popular malting variety with 7,000 acres planted.

The 1990 Barley Variety Survey was conducted as a nonprobability survey in conjunction with the Wheat Variety Survey. Data were collected by mail, telephone and personal interviews. Questionnaires were mailed to all the barley and wheat producers on our list on May 14, 1990. Growers that were being interviewed on other surveys conducted in early June were also asked about barley varieties. A subsample of producers with more than 100 acres of wheat or barley that did not respond by June 11 were interviewed by telephone. There were 2,819 wheat and barley variety reports tabulated, an increase of 35% from last year. A total of 214,000 acres of barley were tabulated which represents 71% of the 1990 crop.

Funds to conduct the 1990 Barley Survey were provided jointly by the American Malting Barley Association, Inc. and the Washington Barley Commission.


Barley Planted Acreage by Variety, 1990

1989 Acres Planted by Variety, By Agricultural Statistics Districts, Washington

Type/Variety	West	Central	Northeast	E. Central	Southeast	State Total	Percent of Total 1/
Feed Barley:				Acres			%
Steptoe	3,100	15,600	32,300	120,200	178,600	349,800	70.0
Cougbar	0	100	2,800	1,300	11,900	16,100	3.2
Boyer	0	1,100	1,000	2,600	10,400	15,100	3.0
Kamiak	0	600	0	800	6,800	8,200	1.6
Camelot	0	0	800	2,600	2,200	5,600	1.1
Bridger 82	0	100	0	0	5,300	5,400	1.1
Lindy	0	0	0	5,100	0	5,100	1.0
Lewis	0	100	1,600	300	2,700	4,700	.9
Piston	0	0	4,400	0	200	4,600	.9
Showin	0	400	500	700	2,900	4,500	.9
Westbred Gustoe	0	1,500	800	1,600	500	4,400	.9
Menuet	1,400	0	1,400	300	0	3,100	.6
Belford	0	1,700	1,000	0	0	2,700	.5
Columbia	200	700	0	1,500	200	2,600	.5
Other Feed Barley	600	1,900	2,000	2,800	6,200	13,500	2.7
Total Feed Barley	**5,300**	**23,800**	**48,600**	**139,800**	**227,900**	**445,400**	**89.1**
Malting Barley:							
Harrington	0	0	5,000	6,700	5,100	16,800	3.4
Morex	0	0	8,600	200	1,000	9,800	2.0
Crystal	0	0	0	9,500	0	9,500	1.9
Klages	0	0	0	6,400	0	6,400	1.3
Andre	0	0	0	0	3,600	3,600	.7
Clark	0	0	1,000	200	1,900	3,100	.6
Other Malting Barley	200	700	800	1,200	2,500	5,400	1.1
Total Malting Barley	**200**	**700**	**15,400**	**24,200**	**14,100**	**54,600**	**10.9**
State Total Barley	**5,500**	**24,500**	**64,000**	**164,000**	**242,000**	**500,000**	**100.0**

1/ Sum of the percentages will not add to total due to rounding.

1990 Acres Planted by Variety, By Agricultural Statistics Districts,Washington

Type/Variety	West	Central	Northeast	E. Central	Southeast	State Total	Percent of Total 1/
Feed Barley:			Acres				%
Steptoe	2,400	6,600	24,300	67,100	127,000	227,400	65.0
Camelot	0	2,000	2,500	9,900	2,900	17,300	4.9
Kamiak	0	2/	2/	700	6,700	8,000	2.3
Cougbar	0	2/	500	2/	4,500	5,600	1.6
Boyer	0	2/	300	2/	4,200	5,400	1.5
Gallatin	0	0	0	2/	4,100	4,300	1.2
Lewis	0	2/	800	1,700	2/	3,600	1.0
Lindy	0	2/	0	3,600	0	3,600	1.0
Menuet	2,400	0	1,100	0	0	3,500	1.0
Belford	0	2,200	300	*	2/	2,600	.7
Seven	0	0	0	0	2,500	2,500	.7
Columbia	500	800	0	800	200	2,300	.7
Showin	0	2/	2/	2/	600	2,100	.6
Medallion	0	1,100	0	600	*	1,700	.5
Hesk	100	2/	0	2/	700	1,100	.3
Piston	0	0	600	2/	2/	1,100	.3
Schuyler	0	0	0	0	1,000	1,000	.3
Bridger 82	0	0	2/	0	2/	800	.2
Westbred Gusto	0	0	2/	2/	2/	500	.1
Other Feed Barley	0	3,200	1,700	2,100	2,200	2,600	.7
Unknown Feed Barley	0	500	500	500	500	2,000	.6
Total Feed Barley	**5,400**	**16,400**	**32,600**	**87,000**	**157,100**	**299,000**	**85.4**
Malting Barley:							
Harrington	0	0	4,900	14,300	9,200	28,400	8.1
Morex	0	0	5,300	2/	2/	7,000	2.0
Crystal	0	0	2/	2,900	2/	4,400	1.3
Russell	0	0	2/	2,700	2/	3,000	.9
Clark	0	0	1,500	*	1,300	2,800	.8
Advance	0	0	0	2/	2/	1,300	.4
WA 8771	0	0	2/	2/	0	1,000	.3
Vanguard	0	0	2/	0	2/	600	.2
Other Malting Barley	0	0	1,700	2,900	4,400	2,100	.6
Unknown Malting Barley	100	100	0	200	0	400	.1
Total Malting Barley	**100**	**100**	**13,400**	**23,000**	**14,900**	**51,000**	**14.6**
State Total Barley	**5,500**	**16,500**	**46,000**	**110,000**	**172,000**	**350,000**	**100.0**

1/ Sum of the percentages will not add to total due to rounding.

2/ Included with other varieties to avoid disclosure of individual operations at the District level, but listed in the State.

* Less than 50 acres.

Barley by County, 1988

County And District	All				Irrigated			Dryland		
	Acreage				Acreage			Acreage		
	Planted	Harvested	Yld	Production	Harvested	Yld	Production	Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clallam	300	300	70.0	21,000	-	-	-	300	70.0	21,000
Clark	1,500	1,400	80.0	112,000	-	-	-	1,400	80.0	112,000
Island	300	300	80.0	24,000	-	-	-	300	80.0	24,000
Lewis	600	500	70.0	35,000	-	-	-	500	70.0	35,000
Skagit	1,600	1,300	90.0	117,000	-	-	-	1,300	90.0	117,000
Snohomish	300	300	70.0	21,000	-	-	-	300	70.0	21,000
Whatcom	400	400	65.0	26,000	-	-	-	400	65.0	26,000
Other Co.	500	500	68.0	34,000	-	-	-	500	68.0	34,000
Total	**5,500**	**5,000**	**78.0**	**390,000**	-	-	-	**5,000**	**78.0**	**390,000**
Central										
Benton	11,300	10,700	50.0	535,000	1,300	110.0	143,000	9,400	41.7	392,000
Chelan	300	200	30.0	6,000	-	-	-	200	30.0	6,000
Kittitas	1,500	1,400	100.0	140,000	1,300	104.6	136,000	100	40.0	4,000
Klickitat	8,300	8,000	51.0	408,000	300	80.0	24,000	7,700	49.9	384,000
Okanogan	700	600	38.3	23,000	100	40.0	4,000	500	38.0	19,000
Yakima	7,400	7,100	80.0	568,000	4,000	110.0	440,000	3,100	41.3	128,000
Total	**29,500**	**28,000**	**60.0**	**1,680,000**	**7,000**	**106.7**	**747,000**	**21,000**	**44.4**	**933,000**
Northeast										
Ferry	300	200	45.0	9,000	100	50.0	5,000	100	40.0	4,000
Pend Oreille	600	600	50.0	30,000	100	90.0	9,000	500	42.0	21,000
Spokane	51,400	49,700	68.0	3,381,000	1,200	110.0	132,000	48,500	67.0	3,249,000
Stevens	7,700	7,500	62.0	465,000	600	85.0	51,000	6,900	60.0	414,000
Total	**60,000**	**58,000**	**67.0**	**3,885,000**	**2,000**	**98.5**	**197,000**	**56,000**	**65.9**	**3,688,000**
East Central										
Adams	42,000	41,500	44.0	1,826,000	7,400	80.0	592,000	34,100	36.2	1,234,000
Douglas	9,000	9,000	52.0	468,000	100	90.0	9,000	8,900	51.6	459,000
Franklin	10,000	9,500	70.0	665,000	4,500	102.0	459,000	5,000	41.2	206,000
Grant	22,000	21,500	71.0	1,527,000	8,500	104.0	884,000	13,000	49.5	643,000
Lincoln	122,000	117,500	55.0	6,459,000	7,500	90.0	675,000	110,000	52.6	5,784,000
Total	**205,000**	**199,000**	**55.0**	**10,945,000**	**28,000**	**93.5**	**2,619,000**	**171,000**	**48.7**	**8,326,000**
Southeast										
Asotin	11,000	10,000	40.0	400,000	-	-	-	10,000	40.0	400,000
Columbia	18,000	17,000	51.0	867,000	-	-	-	17,000	51.0	867,000
Garfield	35,000	34,000	55.0	1,870,000	300	70.0	21,000	33,700	54.9	1,849,000
Walla Walla	27,000	26,000	72.0	1,872,000	1,400	80.0	112,000	24,600	71.5	1,760,000
Whitman	189,000	183,000	70.0	12,811,000	300	90.0	27,000	182,700	70.0	12,784,000
Total	**280,000**	**270,000**	**66.0**	**17,820,000**	**2,000**	**80.0**	**160,000**	**268,000**	**65.9**	**17,660,000**
State Total	**580,000**	**560,000**	**62.0**	**34,720,000**	**39,000**	**95.5**	**3,723,000**	**521,000**	**59.5**	**30,997,000**

- Not Applicable.

Barley by County, 1989

County And District	All				Irrigated			Dryland		
	Acreage				Acreage			Acreage		
	Planted	Harvested	Yld	Production	Harvested	Yld	Production	Harvested	Yld	Production
	Acres		Bushels		Acres	Bushels		Acres	Bushels	
West										
Clallam	400	400	67.0	26,800	-	-	-	400	67.0	26,800
Clark	800	600	80.0	48,000	-	-	-	600	80.0	48,000
Island	400	400	73.0	29,200	-	-	-	400	73.0	29,200
Lewis	600	500	69.0	34,500	-	-	-	500	69.0	34,500
Skagit	2,000	1,900	95.0	180,500	-	-	-	1,900	95.0	180,500
Snohomish	300	300	70.0	21,000	-	-	-	300	70.0	21,000
Whatcom	400	400	65.0	26,000	-	-	-	400	65.0	26,000
Other Co.	600	500	68.0	34,000	-	-	-	500	68.0	34,000
Total	**5,500**	**5,000**	**80.0**	**400,000**	-	-	-	**5,000**	**80.0**	**400,000**
Central										
Benton	5,900	5,800	26.0	150,800	600	90.0	54,000	5,200	18.6	96,800
Chelan	300	300	30.0	9,000	-	-	-	300	30.0	9,000
Kittitas	1,000	900	93.0	83,700	700	109.0	76,300	200	37.0	7,400
Klickitat	8,600	8,200	40.0	328,200	400	95.0	38,000	7,800	37.2	290,200
Okanogan	1,000	900	36.0	32,400	200	63.0	12,600	700	28.3	19,800
Yakima	7,700	7,400	74.0	547,900	6,100	85.1	519,100	1,300	22.2	28,800
Total	**24,500**	**23,500**	**49.0**	**1,152,000**	**8,000**	**87.5**	**700,000**	**15,500**	**29.2**	**452,000**
Northeast										
Ferry	800	600	50.0	30,000	300	60.0	18,000	300	40.0	12,000
Pend Oreille	800	700	40.0	28,000	100	71.0	7,100	600	34.8	20,900
Spokane	52,400	52,100	63.0	3,282,700	1,100	109.0	119,900	51,000	62.0	3,162,800
Stevens	10,000	9,600	52.0	499,300	500	66.0	33,000	9,100	51.2	466,300
Total	**64,000**	**63,000**	**61.0**	**3,840,000**	**2,000**	**89.0**	**178,000**	**61,000**	**60.0**	**3,662,000**
East Central										
Adams	25,000	24,500	53.0	1,297,300	6,300	81.0	510,500	18,200	43.2	786,800
Douglas	6,500	6,500	44.0	286,000	400	90.0	36,000	6,100	41.0	250,000
Franklin	6,500	5,800	66.0	382,800	2,000	105.0	210,000	3,800	45.5	172,800
Grant	16,000	15,400	63.0	970,200	5,000	100.0	500,200	10,400	45.2	470,000
Lincoln	110,000	108,800	47.0	5,117,700	5,300	77.0	408,300	103,500	45.5	4,709,400
Total	**164,000**	**161,000**	**50.0**	**8,054,000**	**19,000**	**87.6**	**1,665,000**	**142,000**	**45.0**	**6,389,000**
Southeast										
Asotin	10,000	9,500	43.0	408,500	-	-	-	9,500	43.0	408,500
Columbia	10,000	9,500	59.0	560,500	-	-	-	9,500	59.0	560,500
Garfield	34,000	33,000	60.0	1,981,000	300	63.0	18,900	32,700	60.0	1,962,100
Walla Walla	22,000	21,500	71.0	1,526,000	1,400	80.0	112,000	20,100	70.3	1,414,000
Whitman	166,000	164,000	64.0	10,498,000	300	77.0	23,100	163,700	64.0	10,474,900
Total	**242,000**	**237,500**	**63.0**	**14,974,000**	**2,000**	**77.0**	**154,000**	**235,500**	**62.9**	**14,820,000**
State Total	**500,000**	**490,000**	**58.0**	**28,420,000**	**31,000**	**87.0**	**2,697,000**	**459,000**	**56.0**	**25,723,000**

- Not Applicable.

Oats

Spring crops were seeded later than usual in 1989 due to wet field conditions early in the season. Timely rains and warmer temperatures in early June improved the oat crop condition and favorable weather was experienced through most of the harvest. Planted acreage increased 6% from 1988 and 13% from 1987. Acreage harvested for grain increased 29% from 1988 and 50% from 1987. The 1989 yield was 63 bushels per acre, a decrease of 4 bushels per acre from 1988, and 3 bushels per acre below the 1987 yield of 66 bushels per acre.

Census revisions were made for 1987 lowering the acreage harvested for grain from 35,000 acres to 30,000 acres.

Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/Bu.
1980	30	62	1,860	2.10
1981	32	50	1,600	2.19
1982	30	62	1,860	1.87
1983	33	63	2,079	1.61
1984	30	68	2,040	1.80
1985	33	65	2,145	1.50
1986	33	65	2,145	1.10
1987	30	66	1,980	1.40
1988	35	67	2,345	2.05
1989	45	63	2,835	1.35

Oat Stocks

Crop Year	October			January *			April *			June *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1980	930	407	1,337	744	358	1,102	521	188	709	260	115	375
1981	1,040	272	1,312	800	213	1,013	560	175	735	256	131	387
1982	1,283	616	1,899	986	602	1,588	707	399	1,106	335	356	691
1983	1,663	615	2,278	1,040	526	1,566	707	314	1,021	312	180	492
1984	1,530	344	1,874	1,020	313	1,333	551	163	714	326	137	463
1985	1,823	270	2,093	1,158	241	1,399	1/	1/	1/	2/	174	2/
1986 1/										2/	133	2/
1987 1/										2/	180	2/
1988 1/										2/	428	2/
1989 1/										2/	513	2/

1/ Estimates discontinued for all quarters except June. Survey dates changed to September 1, December 1, March 1, and June 1 beginning with the 1986 crop.
2/ Not published to avoid disclosure of individual reports.
* Following year.

Oats by County

County And District	1987				1988				1989			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels		Acres		Bushels	
West												
Clark	18,500	4,000	89.0	356,000	20,000	4,300	80.0	344,000	21,000	2,200	80.0	176,000
Lewis	3,000	1,000	62.0	62,000	3,000	800	70.0	56,000	3,000	1,000	68.0	68,000
Skagit	2,000	300	70.0	21,000	2,000	200	70.0	14,000	2,000	500	75.0	37,500
Snohomish	600	300	70.0	21,000	-	-	-	-	-	-	-	-
Whatcom	1,600	100	80.0	8,000	2,000	200	75.0	15,000	2,000	500	75.0	37,500
Other Co.	2,300	300	80.0	24,000	3,000	500	78.0	39,000	3,000	800	70.0	56,000
Total	**28,000**	**6,000**	**82.0**	**492,000**	**30,000**	**6,000**	**78.0**	**468,000**	**31,000**	**5,000**	**75.0**	**375,000**
Central												
Benton	300	100	50.0	5,000	300	200	45.0	9,000	200	100	49.0	4,900
Chelan	300	200	50.0	10,000	200	100	40.0	4,000	300	100	33.0	3,300
Kittitas	2,400	1,100	90.0	99,000	2,300	1,000	78.0	78,000	3,300	2,300	81.0	186,300
Klickitat	900	200	70.0	14,000	1,500	600	80.0	48,000	1,500	1,200	65.0	78,000
Okanogan	1,300	700	48.6	34,000	1,300	800	55.0	44,000	1,200	800	50.0	40,000
Yakima	1,300	200	90.0	18,000	1,400	300	80.0	24,000	1,500	500	65.0	32,500
Total	**6,500**	**2,500**	**72.0**	**180,000**	**7,000**	**3,000**	**69.0**	**207,000**	**8,000**	**5,000**	**69.0**	**345,000**
Northeast												
Ferry	800	400	50.0	20,000	1,000	300	60.0	18,000	1,200	500	55.0	27,500
Pend Oreille	2,700	1,500	56.0	84,000	2,000	1,500	50.0	75,000	1,500	1,000	47.0	47,000
Spokane	15,000	6,000	66.0	396,000	11,000	5,700	70.0	399,000	14,500	11,700	63.0	737,100
Stevens	8,500	5,100	60.0	306,000	9,000	4,500	64.0	288,000	9,800	6,800	63.0	428,400
Total	**27,000**	**13,000**	**62.0**	**806,000**	**23,000**	**12,000**	**65.0**	**780,000**	**27,000**	**20,000**	**62.0**	**1,240,000**
East Central												
Adams	500	300	60.0	18,000	1,300	800	60.0	48,000	1,000	500	65.0	32,500
Douglas	3,000	2,300	47.0	108,000	5,800	5,000	59.0	295,000	4,000	3,600	50.0	180,100
Franklin	600	200	65.0	13,000	500	200	55.0	11,000	800	600	50.0	30,000
Grant	3,500	1,800	65	117,000	2,000	500	62.0	31,000	2,000	800	63.0	50,400
Lincoln	1,400	900	70.0	63,000	4,400	2,500	62.0	155,000	3,200	2,500	62.0	155,000
Total	**9,000**	**5,500**	**58.0**	**319,000**	**14,000**	**9,000**	**60.0**	**540,000**	**11,000**	**8,000**	**56.0**	**448,000**
Southeast												
Asotin	-	-	-	-	200	200	55.0	11,000	400	300	50.0	15,000
Columbia	600	400	65.0	26,000	1,600	1,500	74.0	111,000	2,500	2,300	64.0	147,200
Garfield	500	300	70.0	21,000	700	700	70.0	49,000	1,000	800	64.0	51,200
Walla Walla	500	300	60.0	18,000	800	600	65.0	39,000	800	600	56.0	33,600
Whitman	2,900	2,000	59.0	118,000	2,700	2,000	70.0	140,000	3,300	3,000	60.0	180,000
Total	**4,500**	**3,000**	**61.0**	**183,000**	**6,000**	**5,000**	**70.0**	**350,000**	**8,000**	**7,000**	**61.0**	**427,000**
State Total	**75,000**	**30,000**	**66.0**	**1,980,000**	**80,000**	**35,000**	**67.0**	**2,345,000**	**85,000**	**45,000**	**63.0**	**2,835,000**

- Not Applicable.

CORN

Cool temperatures slowed crop development early in the season, but warmer temperatures in July and August were beneficial. Corn planting began the third week of April and was completed by the second week of June. Corn for silage harvest began the last week of August and was virtually complete by the last week of October. Corn for grain harvest began the second week of September and went through November.

Planted acres of corn increased 8% from 1988. Corn for grain harvest acreage increased 10,000 acres from 80,000 acres in 1988 to 90,000 in 1989, while acreage for silage remained the same at 40,000 acres. Increases in corn for grain acreages were seen in the Central, East Central and Southeastern regions of the State. The 1989 corn for grain yield increased 3% to 175 bushels per acre. The corn for silage remained the same at 25 tons per acre for the third year.

Corn For Grain Areage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Bushels	1,000 Bushels	$/ Bu.
1980	88	125	11,000	3.84
1981	114	130	14,820	3.05
1982	160	150	24,000	3.00
1983	110	160	17,600	3.62
1984	150	155	23,250	3.00
1985	135	160	21,600	2.65
1986	120	170	20,400	1.80
1987	80	170	13,600	2.15
1988	80	170	13,600	3.00
1989	90	175	15,750	2.80

Corn For Silage Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Tons	1,000 Tons	$/ Ton
1980	57	21	1,197	23.00
1981	49	21	1,029	23.50
1982	60	22	1,320	23.00
1983	50	23	1,150	25.00
1984	50	23	1,150	23.00
1985	55	22	1,210	22.00
1986	50	24	1,200	22.50
1987	40	25	1,000	22.00
1988	40	25	1,000	24.00
1989	40	25	1,000	25.00

Corn Grain Stocks

Crop Year	January *			April *			June *			October *		
	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total	On-Farm	Off-Farm	Total
	1,000 Bushels											
1980	3,850	4,132	7,982	2,310	5,853	8,163	1,430	1,945	3,375	330	2,471	2,801
1981	5,928	6,449	12,377	2,519	5,633	8,152	1,482	1,681	3,163	1,186	391	1,577
1982	6,720	3,552	10,272	3,600	3,023	6,623	1,920	1,727	3,647	960	2,172	3,132
1983	5,280	8,232	13,512	3,168	6,748	9,916	1,760	6,356	8,116	158	1,396	1,554
1984	7,440	11,393	18,833	2,093	5,422	7,515	1,163	1,593	2,756	116	944	1,060
1985	4,320	8,549	12,869	1/	4,712	1/	1/	2,433	1/	1/	2,170	1/
1986 2/	1/	9,126	1/	1/	6,125	1/	1/	5,112	1/	1/	6,301	1/
1987 2/	1/	10,698	1/	1/	7,749	1/	1/	3,840	1/	1/	5,721	1/
1988 2/	1/	5,721	1/	1/	4,841	1/	1/	4,966	1/	1/	3,435	1/
1989 2/	1/	3,435	1/	1/	7,427	1/	1/	5,349	1/	1/	NA	1/

1/ Not published to avoid disclosure of individual reports.

2/ Survey dates changed to December 1, March 1, June 1, and September 1 beginning with the 1986 crop.

* Following year.

Corn for Grain by County

County and District	1988				1989			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted All Purpose	Harvested For Grain			Planted All Purpose	Harvested For Grain		
	Acres		Bushels		Acres		Bushels	
West								
Other Co.	24,000	0	.0	0	27,000	0	.0	0
Total	**24,000**	**0**	**.0**	**0**	**27,000**	**0**	**.0**	**0**
Central								
Benton	29,900	27,000	201.0	5,427,000	32,400	30,800	209.0	6,435,800
Kittitas	400	300	150.0	45,000	500	200	150.0	30,000
Klickitat	600	400	150.0	60,000	500	200	131.0	26,200
Okanogan	200	0	.0	0	200	0	.0	0
Yakima	8,900	4,800	134.0	643,000	10,900	7,300	134.0	978,000
Total	**40,000**	**32,500**	**190.0**	**6,175,000**	**44,500**	**38,500**	**194.0**	**7,470,000**
Northeast								
Other Co.	500	400	90.0	36,000	500	400	105.0	42,000
Total	**500**	**400**	**90.0**	**36,000**	**500**	**400**	**105.0**	**42,000**
East Central								
Adams	7,200	6,000	136.0	816,000	7,500	6,400	132.0	844,500
Franklin	18,000	16,100	170.0	2,736,500	20,500	19,600	171.0	3,351,500
Grant	23,500	19,000	144.0	2,735,500	21,500	17,600	153.0	2,692,000
Lincoln	300	0	.0	0	500	0	.0	0
Total	**49,000**	**41,100**	**153.0**	**6,288,000**	**50,000**	**43,600**	**158.0**	**6,888,000**
Southeast								
Walla Walla	6,500	6,000	183.5	1,101,000	8,000	7,500	180.0	1,350,000
Total	**6,500**	**6,000**	**183.5**	**1,101,000**	**8,000**	**7,500**	**180.0**	**1,350,000**
State Total	**120,000**	**80,000**	**170.0**	**13,600,000**	**130,000**	**90,000**	**175.0**	**15,750,000**

Corn for Silage by County

County and District	1988				1989			
	Acreage				Acreage			
	Planted All Purpose	Harvested For Silage	Yield Per Acre	Production	Planted All Purpose	Harvested For Silage	Yield Per Acre	Production
	Acres		Tons		Acres		Tons	
West								
Clark	2,500	2,500	21.0	52,500	2,300	2,300	21.0	48,400
Cowlitz	1,300	1,300	20.0	26,000	1,300	1,300	21.0	27,300
Grays Harbor	800	800	15.0	12,000	700	700	17.0	11,900
Island	500	500	19.0	9,500	500	500	20.0	10,000
King	1,000	1,000	25.0	25,000	1,200	1,200	24.0	28,800
Lewis	1,200	1,200	20.0	24,000	1,200	1,200	20.0	24,000
Pierce	700	700	23.0	16,100	700	700	22.0	15,400
Skagit	5,600	5,600	23.0	129,000	5,100	5,100	26.0	132,800
Snohomish	3,600	3,600	22.0	79,100	3,900	3,900	22.0	85,900
Thurston	200	200	20.0	4,000	500	500	19.0	9,500
Wahkiakum	400	400	20.0	8,000	400	400	15.0	6,000
Whatcom	6,000	6,000	27.0	161,800	9,000	9,000	27.0	243,000
Other Co.	200	200	25.0	5,000	200	200	20.0	4,000
Total	**24,000**	**24,000**	**23.0**	**552,000**	**27,000**	**27,000**	**24.0**	**647,000**
Central								
Benton	29,900	2,900	31.0	89,900	32,400	1,600	30.0	48,000
Kittitas	400	100	25.0	2,500	500	300	20.0	6,000
Klickitat	600	200	20.0	4,000	500	300	19.0	5,700
Okanogan	200	200	20.0	4,000	200	200	20.0	4,000
Yakima	8,900	4,100	28.0	114,600	10,900	3,600	29.0	104,300
Total	**40,000**	**7,500**	**28.7**	**215,000**	**44,500**	**6,000**	**28.0**	**168,000**
Northeast								
Other Co.	500	100	20.0	2,000	500	100	15.0	1,500
Total	**500**	**100**	**20.0**	**2,000**	**500**	**100**	**15.0**	**1,500**
East Central								
Adams	7,200	1,200	29.0	34,800	7,500	1,100	29.0	31,900
Franklin	18,000	1,900	28.0	53,200	20,500	900	28.0	25,200
Grant	23,500	4,500	28.0	125,800	21,500	3,900	27.0	105,400
Lincoln	300	300	24.0	7,200	500	500	21.0	10,500
Total	**49,000**	**7,900**	**28.0**	**221,000**	**50,000**	**6,400**	**27.0**	**173,000**
Southeast								
Walla Walla	6,500	500	20.0	10,000	8,000	500	21.0	10,500
Total	**6,500**	**500**	**20.0**	**10,000**	**8,000**	**500**	**21.0**	**10,500**
State Total	**120,000**	**40,000**	**25.0**	**1,000,000**	**130,000**	**40,000**	**25.0**	**1,000,000**

HAY

Warm temperaturues and good moisture, from the latter part of June through September, assisted crop development throughout the season. The first cutting of alfalfa hay began the second week of May. Harvest of third cutting hay was complete the second week of October.

All hay harvested acreage, at 780,000 acres in 1989, was down 2% from the 1988 harvested acreage of 800,000 acres. The all hay yield in 1989 increased 2% from the 1988 yield. The alfalfa and the other hay acreage both decreased 10,000 acres from the 1988 acreages. The other hay yield remained the same as the previous year, while the alfalfa hay yield increased from 4.2 tons per acre in 1988 to 4.3 tons per acre in 1989.

Census revisions were made for the 1986 and 1987 other hay acreages, decreasing each year by 20,000 and 30,000 acres respectively.

Alfalfa Hay

Year	Acres Harvested	Yield Per Acre	Production
	1,000 Acres	Tons	1,000 Tons
1980	505	3.7	1,850
1981	500	3.7	1,813
1982	460	4.0	1,840
1983	440	4.0	1,760
1984	475	4.3	2,043
1985	450	3.9	1,755
1986	470	4.2	1,974
1987	460	4.3	1,978
1988	490	4.2	2,058
1989	480	4.3	2,064

Other Hay

Year	Acres Harvested	Yield Per Acre	Production
	1,000 Acres	Tons	1,000 Tons
1980	360	2.1	756
1981	355	2.1	746
1982	340	2.3	782
1983	350	2.5	875
1984	325	2.7	878
1985	350	2.4	840
1986	340	2.5	850
1987	270	2.4	648
1988	310	2.5	775
1989	300	2.5	750

Acreage, Production, Price, and Stocks

Crop Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price	Stocks	
					Jan. 1	May 1*
	1,000 Acres	Tons	1,000 Tons	$/Ton	1,000 Tons	
1980	865	3.03	2,606	82.50	1,720	573
1981	855	2.97	2,559	67.00	1,663	512
1982	800	3.28	2,622	77.00	1,337	262
1983	790	3.34	2,635	78.50	1,528	237
1984	800	3.65	2,921	80.50	1,490	146
1985	800	3.24	2,595	84.50	1,246	182
1986 1/	810	3.49	2,824	60.00	1,836	508
1987 1/	730	3.60	2,626	54.50	2,048	394
1988 1/	800	3.54	2,833	78.50	1,700	312
1989 1/	780	3.61	2,814	90.00	1,351	225

1/ Survey reference date for hay stocks was changed from January 1 to December 1 beginning with the 1986 crop.

* Following calendar year.

Hay by County, 1986

County and District	Alfalfa			Other Hay			All Hay		
	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production
	Acres	Tons		Acres	Tons		Acres	Tons	
West									
Clallam	2,900	4.14	12,000	4,000	2.30	9,200	6,900	3.07	21,200
Clark	2,500	3.20	8,000	13,000	2.52	32,800	15,500	2.63	40,800
Cowlitz	200	3.00	600	6,000	2.83	17,000	6,200	2.84	17,600
Grays Harbor	100	4.00	400	12,500	3.00	37,500	12,600	3.01	37,900
Island	1,800	2.78	5,000	5,000	1.86	9,300	6,800	2.10	14,300
Jefferson	100	4.00	400	3,000	1.67	5,000	3,100	1.74	5,400
King	100	3.00	300	9,500	2.27	21,600	9,600	2.28	21,900
Kitsap	-	-	-	1,500	2.00	3,000	1,500	2.00	3,000
Lewis	2,000	3.15	6,300	27,000	2.00	54,000	29,000	2.08	60,300
Mason	600	2.00	1,200	3,000	2.00	6,000	3,600	2.00	7,200
Pacific	200	3.50	700	6,000	2.25	13,500	6,200	2.29	14,200
Pierce	100	3.00	300	10,000	2.00	20,000	10,100	2.01	20,300
San Juan	100	3.00	300	4,500	1.80	8,100	4,600	1.83	8,400
Skagit	200	3.00	600	18,000	2.50	45,000	18,200	2.51	45,600
Skamania	200	2.50	500	500	2.00	1,000	700	2.14	1,500
Snohomish	200	4.00	800	21,000	2.50	52,600	21,200	2.52	53,400
Thurston	200	4.00	800	14,000	2.00	28,000	14,200	2.03	28,800
Wahkiakum	100	2.00	200	3,000	2.00	6,000	3,100	2.00	6,200
Whatcom	2,500	5.00	12,500	49,500	3.00	148,500	52,000	3.10	161,000
Total	14,100	3.61	50,900	211,000	2.46	518,100	225,100	2.53	569,000
Central									
Benton	16,700	5.30	88,500	1,000	3.00	3,000	17,700	5.17	91,500
Chelan	3,500	2.57	9,000	1,000	2.00	2,000	4,500	2.44	11,000
Kittitas	11,100	5.70	63,300	28,000	3.63	101,500	39,100	4.21	164,800
Klickitat	34,000	4.60	156,400	3,000	2.50	7,500	37,000	4.43	163,900
Okanogan	26,000	4.20	109,200	6,500	2.00	13,000	32,500	3.76	122,200
Yakima	30,900	4.80	148,300	5,500	2.91	16,000	36,400	4.51	164,300
Total	122,200	4.70	574,700	45,000	3.18	143,000	167,200	4.29	717,700
Northeast									
Ferry	11,000	2.73	30,000	2,500	1.56	3,900	13,500	2.51	33,900
Pend Oreille	6,000	3.00	18,000	19,000	2.00	38,000	25,000	2.24	56,000
Spokane	51,000	2.86	146,100	22,500	2.50	56,300	73,500	2.75	202,400
Stevens	43,000	2.70	116,100	8,000	1.70	13,600	51,000	2.54	129,700
Total	111,000	2.79	310,200	52,000	2.15	111,800	163,000	2.59	422,000
East Central									
Adams	19,500	6.20	120,900	3,500	3.51	12,300	23,000	5.79	133,200
Douglas	6,000	3.28	19,700	5,000	2.00	10,000	11,000	2.70	29,700
Franklin	58,500	6.22	364,000	500	2.80	1,400	59,000	6.19	365,400
Grant	91,500	3.65	333,600	5,000	3.00	15,000	96,500	3.61	348,600
Lincoln	12,100	3.17	38,300	7,000	2.70	18,900	19,100	2.99	57,200
Total	187,600	4.67	876,500	21,000	2.74	57,600	208,600	4.48	934,100
Southeast									
Asotin	1,400	2.57	3,600	1,000	1.00	1,000	2,400	1.92	4,600
Columbia	1,500	4.00	6,000	1,000	2.50	2,500	2,500	3.40	8,500
Garfield	1,400	4.00	5,600	1,500	1.50	2,250	2,900	2.71	7,850
Walla Walla	9,800	5.31	52,000	2,500	2.30	5,750	12,300	4.70	57,750
Whitman	21,000	4.50	94,500	5,000	1.60	8,000	26,000	3.94	102,500
Total	35,100	4.61	161,700	11,000	1.77	19,500	46,100	3.93	181,200
State Total	**470,000**	**4.20**	**1,974,000**	**340,000**	**2.50**	**850,000**	**810,000**	**3.49**	**2,824,000**

Hay by County, 1987

County and District	Alfalfa			Other Hay			All Hay		
	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production
	Acres	Tons		Acres	Tons		Acres	Tons	
West									
Clallam	2,900	4.00	11,600	3,000	2.50	7,500	5,900	3.24	19,100
Clark	2,500	3.32	8,300	10,000	2.20	22,000	12,500	2.42	30,300
Cowlitz	200	3.00	600	4,000	2.50	10,000	4,200	2.52	10,600
Grays Harbor	100	4.00	400	10,000	2.90	29,000	10,100	2.91	29,400
Island	1,800	2.50	4,500	4,000	1.50	6,000	5,800	1.81	10,500
Jefferson	100	4.00	400	2,000	1.80	3,600	2,100	1.90	4,000
King	100	3.00	300	7,000	2.00	14,000	7,100	2.01	14,300
Kitsap	-	-	-	1,000	2.00	2,000	1,000	2.00	2,000
Lewis	2,000	3.30	6,600	21,000	2.00	42,000	23,000	2.11	48,600
Mason	600	2.00	1,200	2,000	2.00	4,000	2,600	2.00	5,200
Pacific	200	2.00	400	4,000	2.50	10,000	4,200	2.48	10,400
Pierce	100	3.00	300	7,000	1.90	13,300	7,100	1.92	13,600
San Juan	100	3.00	300	3,000	1.60	4,800	3,100	1.65	5,100
Skagit	200	3.00	600	14,000	2.20	30,800	14,200	2.21	31,400
Skamania	200	2.50	500	500	2.00	1,000	700	2.14	1,500
Snohomish	200	3.50	700	16,000	2.40	38,400	16,200	2.41	39,100
Thurston	200	4.00	800	11,000	2.00	22,000	11,200	2.04	22,800
Wahkiakum	100	2.00	200	2,500	2.00	5,000	2,600	2.00	5,200
Whatcom	2,400	5.00	12,000	40,000	2.70	108,000	42,400	2.83	120,000
Total	14,000	3.55	49,700	162,000	2.30	373,400	176,000	2.40	423,100
Central									
Benton	16,000	5.40	86,400	1,000	2.20	2,200	17,000	5.21	88,600
Chelan	3,500	2.40	8,400	1,000	2.00	2,000	4,500	2.31	10,400
Kittitas	11,000	5.60	61,600	26,000	4.00	103,900	37,000	4.47	165,500
Klickitat	33,000	4.00	132,000	2,000	2.20	4,400	35,000	3.90	136,400
Okanogan	24,000	4.10	98,400	4,500	1.40	6,300	28,500	3.67	104,700
Yakima	30,000	4.80	144,000	4,500	2.60	11,700	34,500	4.51	155,700
Total	117,500	4.52	530,800	39,000	3.35	130,500	156,500	4.23	661,300
Northeast									
Ferry	10,000	2.70	27,000	2,500	1.60	4,000	12,500	2.48	31,000
Pend Oreille	6,000	2.60	15,600	14,000	1.60	22,400	20,000	1.90	38,000
Spokane	50,000	2.60	130,000	20,000	2.30	46,000	70,000	2.51	176,000
Stevens	43,000	2.70	116,100	7,000	1.70	11,900	50,000	2.56	128,000
Total	109,000	2.65	288,700	43,500	1.94	84,300	152,500	2.45	373,000
East Central									
Adams	17,000	6.10	103,700	2,000	3.50	7,000	19,000	5.83	110,700
Douglas	6,000	3.40	20,400	3,000	2.00	6,000	9,000	2.93	26,400
Franklin	61,000	6.30	384,300	500	3.00	1,500	61,500	6.27	385,800
Grant	92,000	4.60	423,200	4,000	3.50	14,000	96,000	4.55	437,200
Lincoln	12,000	3.00	36,000	6,000	2.40	14,400	18,000	2.80	50,400
Total	188,000	5.15	967,600	15,500	2.77	42,900	203,500	4.97	1,010,500
Southeast									
Asotin	1,100	2.00	2,200	1,000	1.00	1,000	2,100	1.52	3,200
Columbia	1,300	4.00	5,200	1,000	2.30	2,300	2,300	3.26	7,500
Garfield	1,100	4.00	4,400	1,500	1.60	2,400	2,600	2.62	6,800
Walla Walla	9,000	5.30	47,700	2,000	2.00	4,000	11,000	4.70	51,700
Whitman	19,000	4.30	81,700	4,500	1.60	7,200	23,500	3.78	88,900
Total	31,500	4.48	141,200	10,000	1.69	16,900	41,500	3.81	158,100
State Total	**460,000**	**4.30**	**1,978,000**	**270,000**	**2.40**	**648,000**	**730,000**	**3.60**	**2,626,000**

- Not available.

Hay by County, 1988

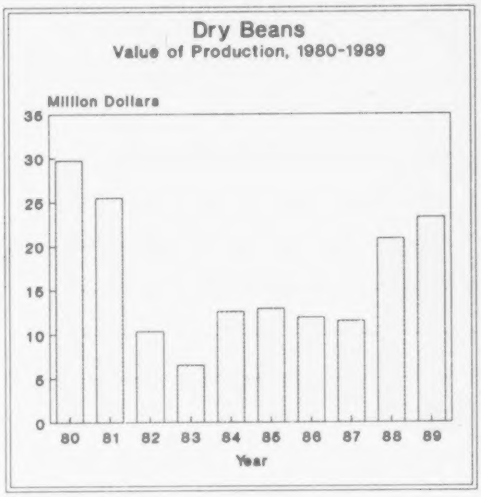
County and District	Alfalfa			Other Hay			All Hay		
	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production	Harvested	Yield Per Acre	Production
	Acres	Tons		Acres	Tons		Acres	Tons	
West									
Clallam	3,400	3.50	11,900	3,300	2.45	8,100	6,700	2.99	20,000
Clark	2,500	3.00	7,500	10,300	2.40	24,700	12,800	2.52	32,200
Cowlitz	300	4.00	1,200	4,500	3.00	13,500	4,800	3.06	14,700
Grays Harbor	200	4.00	800	12,000	2.50	30,000	12,200	2.52	30,800
Island	2,200	3.00	6,600	4,000	1.60	6,400	6,200	2.10	13,000
Jefferson	100	4.00	400	2,500	1.60	4,000	2,600	1.69	4,400
King	600	3.00	1,800	8,400	2.10	17,600	9,000	2.16	19,400
Kitsap	100	2.00	200	1,200	2.00	2,400	1,300	2.00	2,600
Lewis	2,100	4.00	8,400	22,800	2.10	47,900	24,900	2.26	56,300
Mason	200	2.00	400	2,300	2.30	5,300	2,500	2.28	5,700
Pacific	400	2.00	800	5,700	3.00	17,100	6,100	2.93	17,900
Pierce	400	3.00	1,200	8,300	2.00	16,600	8,700	2.05	17,800
San Juan	200	2.50	500	3,500	2.00	7,000	3,700	2.03	7,500
Skagit	700	3.00	2,100	22,200	2.30	51,000	22,900	2.32	53,100
Skamania	300	3.00	900	500	2.00	1,000	800	2.38	1,900
Snohomish	400	3.00	1,200	17,000	2.50	42,500	17,400	2.51	43,700
Thurston	500	4.00	2,000	11,000	2.10	23,100	11,500	2.18	25,100
Wahkiakum	400	2.50	1,000	2,800	2.50	7,000	3,200	2.50	8,000
Whatcom	3,000	4.70	14,100	41,700	2.80	116,800	44,700	2.93	130,900
Total	18,000	3.50	63,000	184,000	2.40	442,000	202,000	2.50	505,000
Central									
Benton	17,000	5.00	85,000	1,000	2.20	2,200	18,000	4.84	87,200
Chelan	4,000	3.00	12,000	1,000	2.00	2,000	5,000	2.80	14,000
Kittitas	12,000	5.00	60,000	30,400	4.25	129,100	42,400	4.46	189,100
Klickitat	33,000	3.00	99,000	2,600	2.50	6,500	35,600	2.96	105,500
Okanogan	26,000	4.00	104,100	5,800	2.00	11,600	31,800	3.64	115,700
Yakima	32,000	5.40	172,900	7,200	3.00	21,600	39,200	4.96	194,500
Total	124,000	4.30	533,000	48,000	3.60	173,000	172,000	4.10	706,000
Northeast									
Ferry	10,000	2.00	20,000	2,100	1.05	2,200	12,100	1.83	22,200
Pend Oreille	6,000	2.30	13,800	17,200	1.60	27,500	23,200	1.78	41,300
Spokane	51,000	2.40	122,200	22,700	1.80	40,900	73,700	2.21	163,100
Stevens	46,000	2.50	115,000	8,000	1.80	14,400	54,000	2.40	129,400
Total	113,000	2.40	271,000	50,000	1.70	85,000	163,000	2.18	356,000
East Central									
Adams	19,000	5.20	98,800	3,500	3.40	11,900	22,500	4.92	110,700
Douglas	6,000	3.80	22,800	2,500	2.00	5,000	8,500	3.27	27,800
Franklin	61,000	5.90	360,200	600	3.00	1,800	61,600	5.88	362,000
Grant	102,000	5.20	530,700	4,100	3.80	15,600	106,100	5.15	546,300
Lincoln	13,000	2.50	32,500	7,300	2.70	19,700	20,300	2.57	52,200
Total	201,000	5.20	1,045,000	18,000	3.00	54,000	219,000	5.02	1,099,000
Southeast									
Asotin	1,000	1.90	1,900	1,000	1.50	1,500	2,000	1.70	3,400
Columbia	1,500	3.60	5,400	1,400	2.50	3,500	2,900	3.07	8,900
Garfield	1,600	3.00	4,800	1,000	1.80	1,800	2,600	2.54	6,600
Walla Walla	10,400	5.75	59,800	1,600	2.00	3,200	12,000	5.25	63,000
Whitman	19,500	3.80	74,100	5,000	2.20	11,000	24,500	3.47	85,100
Total	34,000	4.29	146,000	10,000	2.10	21,000	44,000	3.80	167,000
State Total	**490,000**	**4.20**	**2,058,000**	**310,000**	**2.50**	**775,000**	**800,000**	**3.54**	**2,833,000**

Hay by County, 1989

County and District	Alfalfa Harvested	Alfalfa Yield Per Acre	Alfalfa Production	Other Hay Harvested	Other Hay Yield Per Acre	Other Hay Production	All Hay Harvested	All Hay Yield Per Acre	All Hay Production
	Acres	Tons		Acres	Tons		Acres	Tons	
West									
Clallam	2,800	4.00	11,200	3,300	2.50	8,250	6,100	3.19	19,450
Clark	2,600	3.00	7,800	8,500	2.20	18,700	11,100	2.39	26,500
Cowlitz	200	5.00	1,000	4,000	3.00	12,000	4,200	3.10	13,000
Grays Harbor	200	5.00	1,000	11,500	2.50	28,750	11,700	2.54	29,750
Island	2,000	4.00	8,000	3,000	1.60	4,800	5,000	2.56	12,800
Jefferson	200	3.00	600	2,800	2.00	5,600	3,000	2.07	6,200
King	700	3.00	2,100	5,500	2.00	11,000	6,200	2.11	13,100
Kitsap	100	2.00	200	1,500	2.00	3,000	1,600	2.00	3,200
Lewis	1,600	4.00	6,400	20,000	2.00	39,900	21,600	2.14	46,300
Mason	200	3.00	600	2,000	2.00	4,000	2,200	2.09	4,600
Pacific	300	3.00	900	5,000	2.00	10,000	5,300	2.06	10,900
Pierce	300	3.00	900	9,000	2.30	20,700	9,300	2.32	21,600
San Juan	100	3.00	300	3,300	1.70	5,600	3,400	1.74	5,900
Skagit	600	3.50	2,100	20,000	2.20	43,900	20,600	2.23	46,000
Skamania	300	3.00	900	300	2.00	600	600	2.50	1,500
Snohomish	600	3.00	1,800	12,000	2.30	27,600	12,600	2.33	29,400
Thurston	300	5.00	1,500	11,500	2.00	23,000	11,800	2.08	24,500
Wahkiakum	300	3.00	900	2,200	2.50	5,500	2,500	2.56	6,400
Whatcom	2,600	3.00	7,800	30,600	2.55	78,100	33,200	2.59	85,900
Total	16,000	3.50	56,000	156,000	2.25	351,000	172,000	2.37	407,000
Central									
Benton	15,500	5.20	80,600	2,400	2.50	6,000	17,900	4.84	86,600
Chelan	3,500	2.40	8,400	2,600	2.00	5,200	6,100	2.23	13,600
Kittitas	9,000	4.50	40,500	35,200	4.50	158,400	44,200	4.50	198,900
Klickitat	33,000	3.50	115,600	2,900	2.90	8,400	35,900	3.45	124,000
Okanogan	25,000	4.50	112,500	6,200	1.60	9,900	31,200	3.92	122,400
Yakima	29,000	4.50	130,400	7,700	3.00	23,100	36,700	4.18	153,500
Total	115,000	4.24	488,000	57,000	3.70	211,000	172,000	4.06	699,000
Northeast									
Ferry	10,000	2.00	20,000	2,600	2.00	5,200	12,600	2.00	25,200
Pend Oreille	5,000	2.00	10,000	21,900	1.60	35,000	26,900	1.67	45,000
Spokane	50,000	2.50	125,000	26,000	2.20	57,200	76,000	2.40	182,200
Stevens	45,000	2.56	115,000	8,500	1.60	13,600	53,500	2.40	128,600
Total	110,000	2.45	270,000	59,000	1.88	111,000	169,000	2.25	381,000
East Central									
Adams	17,000	6.00	102,000	4,000	3.50	14,000	21,000	5.52	116,000
Douglas	6,000	5.00	30,000	2,500	1.60	4,000	8,500	4.00	34,000
Franklin	63,000	5.50	346,500	700	3.00	2,100	63,700	5.47	348,600
Grant	108,000	5.50	594,500	3,900	4.10	16,000	111,900	5.46	610,500
Lincoln	12,000	2.50	30,000	7,900	2.90	22,900	19,900	2.66	52,900
Total	206,000	5.35	1,103,000	19,000	3.11	59,000	225,000	5.16	1,162,000
Southeast									
Asotin	1,200	2.00	2,400	800	1.50	1,200	2,000	1.80	3,600
Columbia	1,100	4.00	4,400	1,300	2.23	2,900	2,400	3.04	7,300
Garfield	1,200	3.50	4,200	800	2.00	1,600	2,000	2.90	5,800
Walla Walla	12,000	5.50	66,000	1,200	2.50	3,000	13,200	5.23	69,000
Whitman	17,500	4.00	70,000	4,900	1.90	9,300	22,400	3.54	79,300
Total	33,000	4.45	147,000	9,000	2.00	18,000	42,000	3.93	165,000
State Total	**480,000**	**4.30**	**2,064,000**	**300,000**	**2.50**	**750,000**	**780,000**	**3.61**	**2,814,000**

DRY BEANS

Dry bean harvested acreage in 1989 was 43,000 acres, an increase of 7,000 acres from 1988. Average yield was up 100 pounds at 2,160 pounds per acre and production totaled 929,000 cwt. Although the 1989 season average price of $25.10 per cwt. was less than the 1988 price, the value of production, at $23.3 million, was up $2.5 million due to the increase in production. Nationally, Washington ranked seventh in dry bean production, unchanged from a year ago.



Dry Beans by County

Year/ County	Acreage		Yield Per Acre	Production
	Planted	Harvested		
	Acres		Lbs.	Cwt.
1987				
Adams	4,300	4,300	2,210	95,000
Franklin	4,800	4,800	2,230	107,000
Grant	20,600	19,800	2,300	455,000
Other Co.	6,300	6,100	1,460	89,000
Total	**36,000**	**35,000**	**2,130**	**746,000**
1988				
Adams	4,600	4,600	2,110	97,000
Franklin	4,100	4,100	2,200	90,000
Grant	22,200	21,500	2,170	466,000
Other Co.	6,100	5,800	1,530	89,000
Total	**37,000**	**36,000**	**2,060**	**742,000**
1989				
Adams	6,000	5,900	2,360	139,000
Franklin	5,300	5,300	2,250	119,000
Grant	26,300	25,500	2,250	573,000
Other Co.	6,400	6,300	1,560	98,000
Total	**44,000**	**43,000**	**2,160**	**929,000**

Acreage, Yield, Production and Price

Year	Acreage		Yield Per Acre	Production	Season Avg. Price	Value of Production
	Planted	Harvested				
	Acres		Lbs.	Cwt.	$/Cwt.	1,000 Dollars
1980	55,000	54,000	2,000	1,080,000	27.50	29,700
1981	70,000	69,000	2,000	1,380,000	18.50	25,530
1982	38,000	37,000	2,070	766,000	13.50	10,341
1983	16,000	16,000	2,220	355,000	18.30	6,497
1984	35,000	34,000	2,080	707,000	17.80	12,585
1985	34,000	33,000	2,150	710,000	18.20	12,922
1986	32,000	31,000	2,160	670,000	17.80	11,926
1987	36,000	35,000	2,130	746,000	15.40	11,488
1988	37,000	36,000	2,060	742,000	28.10	20,850
1989	44,000	43,000	2,160	929,000	25.10	23,318

Small Red Beans

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1980	16,100	2,300	370,000
1981	18,900	2,100	396,000
1982	14,500	2,030	294,000
1983	7,200	2,150	155,000
1984	8,000	2,100	168,000
1985	12,700	2,260	286,000
1986	12,900	2,360	304,000
1987	6,500	2,510	163,000
1988	10,900	2,230	243,000
1989	13,200	2,480	327,000

Pinto Beans

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1980	26,800	1,800	498,000
1981	31,700	2,030	643,000
1982	12,600	2,030	256,000
1983	3,400	2,290	78,000
1984	10,200	2,140	214,000
1985	9,200	2,160	199,000
1986	8,400	2,190	184,000
1987	11,200	2,220	249,000
1988	7,000	2,270	159,000
1989	14,000	2,140	299,000

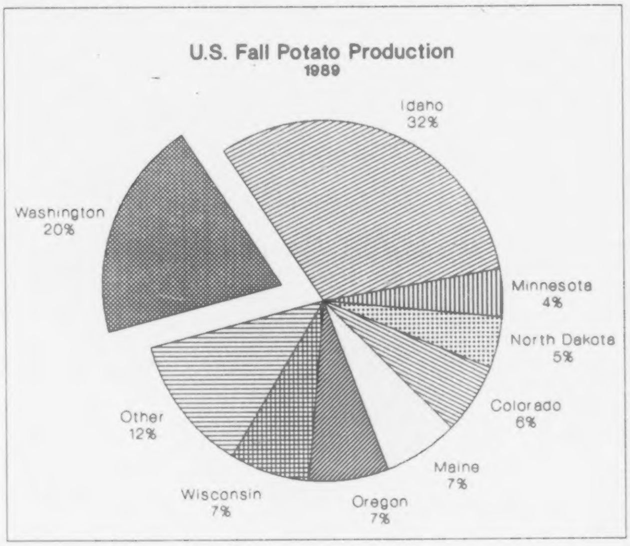
Small White Beans

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1980	5,700	1,750	100,000
1981	8,300	1,950	162,000
1982	6,400	2,290	147,000
1983	4,000	2,330	93,000
1984	12,000	2,000	240,000
1985	8,900	2,020	180,000
1986	3,900	2,210	86,000
1987	9,500	2,190	208,000
1988	10,800	2,180	235,000
1989	6,700	2,160	145,000

Pink Beans

Year	Acres Harvested	Yield Per Acre	Production
	Acres	Lbs.	Cwt.
1980	5,200	2,080	108,000
1981	10,000	1,770	177,000
1982	3,200	1,960	63,000
1983	1,100	2,000	22,000
1984	2,500	2,080	52,000
1985	1,600	2,000	32,000
1986	2,400	2,080	50,000
1987	1,100	2,450	27,000
1988	800	2,250	18,000
1989	1,800	2,330	42,000

POTATOES



Potato planting began the third week of March and progressed at a normal pace. Harvest began the second week of July and was complete by the first week of November.

Potato acreage planted and harvested in Washington increased 3,000 acres to 118,000 acres in 1989 from the 1988 acreage of 115,000 acres. The 1989 yield, at 545 cwt. per acre, was 5 cwt. per acre below the 1988 record yield of 550 cwt. per acre. Production was 64,310,000 cwt., an increase of 2 percent from 1988.

The preliminary season average price for the 1989 crop of $5.00 per cwt. shows an 11% increase over the 1988 season average price. Stocks throughout the season were at lower levels than in 1988. The May 1, 1990 stocks were the lowest since 1984.

Potatoes: Acreage, Production, and Price

Crop Year	Acreage Planted	Acreage Harvested	Yield Per Harvested Acre	Production	Season Average Price	Value of Production
	Acres		Cwt.	1,000 Cwt.	$/Cwt.	1,000 Dol.
1970	87,000	87,000	386	33,590	1.51	50,721
1971	78,000	78,000	386	30,110	1.40	42,154
1972	75,000	75,000	418	31,365	2.09	65,553
1973	84,000	82,000	430	35,260	2.90	102,254
1974	100,000	98,000	420	41,160	3.65	150,234
1975	107,000	105,000	460	48,300	3.15	152,145
1976	124,000	124,000	450	55,800	2.50	139,500
1977	110,000	110,000	460	50,600	2.80	141,680
1978	111,000	111,000	455	50,505	2.45	123,737
1979	102,000	102,000	475	48,450	2.55	123,548
1980	87,000	87,000	505	43,935	4.40	193,314
1981	108,000	108,000	490	52,920	3.95	209,034
1982	110,000	110,000	480	52,800	3.75	198,000
1983	104,000	104,000	520	54,080	4.25	229,840
1984	116,000	115,000	495	56,925	5.15	293,164
1985	127,000	126,000	505	63,630	3.45	219,524
1986	119,000	118,000	525	61,950	4.30	266,385
1987	124,000	124,000	540	66,960	3.65	244,404
1988	115,000	115,000	550	63,250	4.50	284,625
1989	118,000	118,000	545	64,310	5.00	321,550

Potatoes Used for Processing 1/

Area and Storage Season	Accumulated as of: Dec. 1	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	Entire Season
	1,000 Cwt.						
Washington and Other Area, Oregon							
1987-88	22,265	25,950	30,790	35,800	40,900	44,925	58,085
1988-89	19,200	23,455	27,280	31,960	37,575	41,795	51,555
1989-90	23,635	28,015	33,170	38,610	44,510	49,595	4/
Maine 2/							
1987-88	1,770	2,440	3,145	3,745	4,410	4,865	6,745
1988-89	1,685	2,190	2,830	3,455	4,230	4,915	6,915
1989-90	2,015	2,605	3,450	4,005	4,605	5,210	4/
Idaho & Malheur Co. Oregon							
1987-88	18,260	23,320	28,680	34,340	40,380	46,440	64,495
1988-89	18,740	24,270	29,420	34,720	41,360	48,080	64,425
1989-90	22,200	28,140	34,240	40,270	46,330	51,810	4/
Other States 3/							
1987-88	5,750	7,370	9,200	11,250	13,305	15,270	20,155
1988-89	5,805	7,450	9,040	10,645	12,340	14,075	18,385
1989-90	6,340	8,010	9,860	11,535	13,240	15,100	4/
Eight State Total							
1987-88	48,045	59,080	71,815	85,135	98,995	111,500	149,480
1988-89	45,430	57,365	68,570	80,780	95,505	108,865	141,280
1989-90	54,190	66,770	80,720	94,420	108,685	121,715	4/

1/ Total quantity received and used for processing, regardless of the state in which the potatoes were produced. Does not include quantities used for potato chips in Maine, Mich., Minn., N. Dakota, or Wis.

2/ Includes Maine grown potatoes only.

3/ Michigan, Minnesota, North Dakota, and Wisconsin.

4/ Data available September 1990.

Fall Potato Production and Stocks

State and Crop Year	Production	Stocks: Dec. 1	Jan. 1*	Feb. 1*	Mar. 1*	Apr. 1*	May 1*
	1,000 Cwt.						
Idaho							
1987	99,710	72,500	65,000	57,000	49,000	40,000	27,500
1988	102,610	74,000	65,500	58,000	50,500	40,500	27,000
1989	102,475	70,500	61,500	53,000	44,500	35,000	22,000
Oregon							
1987	25,924	17,900	16,100	14,200	11,800	9,500	7,500
1988	20,735	15,300	13,100	11,100	8,700	6,300	4,500
1989	23,308	13,800	12,100	10,000	7,800	5,900	4,100
Washington							
1987	66,960	36,600	32,900	28,300	22,800	17,500	12,600
1988	63,250	36,700	32,100	27,700	22,500	16,200	10,700
1989	64,310	34,500	30,400	25,100	20,000	13,100	7,100
Total 15 Major States							
1987	335,607	225,890	196,760	167,325	138,800	105,905	70,030
1988	305,623	206,420	177,750	151,050	124,485	92,585	59,355
1989	316,147	201,400	173,400	143,150	115,780	83,540	50,125

* Calendar year following year of production.

1989 WASHINGTON AND U.S. POTATO PRODUCTION

Washington: Potato growers in Washington produced 64.31 million cwt. for the 1989 crop, an increase of 2% from 1988, but 4% below 1987's production. The 1989 state average yield was 545 cwt./acre, 5 cwt. below the 1988 record yield of 550 cwt./acre. Harvested acreage, at 118,000 acres, was up 3,000 acres from a year ago. Russet Burbank continued to be the leading variety with 79.3% of the planted acreage, compared with 78.9% in 1988. Other leading varieties for the 1989 crop were: Shepody 6.2%, Norkota 4.7%, and Lemhi 3.0%.

United States: Fall potato production for 1989 was 324.7 million cwt., up 4% from 1988, but 6% below the 1987 crop. Harvested acreage was 1.09 million acres, an increase of 1% from 1988. The average yield was 299 cwt./acre, an increase of 7 cwt./acre from 1988.

Potato Acreage, Yield, and Production

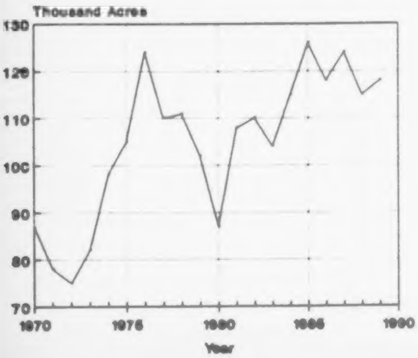
Seasonal Group and State	Area Harvested		Yield		Production		
	1988	1989	1988	1989	1987	1988	1989
	1,000 Acres		Cwt.		1,000 Cwt.		
Winter Total	12.3	13.1	213	211	2,501	2,616	2,764
Spring Total	79.8	88.9	252	235	18,988	20,110	20,852
Summer Total	91.8	93.2	220	236	22,833	20,154	22,002
Fall							
California	16.5	16.5	370	400	7,869	6,105	6,600
Colorado	59.5	61.5	320	335	19,500	19,040	20,603
Connecticut	.6	.3	225	220	123	135	66
Idaho-SW Co	18.0	17.0	400	395	7,200	7,200	6,715
-Oth Co	329.0	336.0	290	285	92,510	95,410	95,760
Indiana	4.2	4.0	180	240	1,250	756	960
Maine	80.0	80.0	275	275	23,240	22,000	22,000
Massachusetts	2.6	2.5	220	240	658	572	600
Michigan	34.0	30.0	230	230	9,720	7,820	6,900
Minnesota	69.0	66.0	175	210	16,330	12,075	13,860
Montana	7.7	8.1	280	275	2,370	2,156	2,228
Nebraska	7.6	7.9	280	320	2,175	2,128	2,528
Nevada	8.0	8.0	310	325	2,720	2,480	2,600
N.Y.-Long Is	8.3	7.3	240	260	2,425	1,992	1,898
-Upstate	24.0	21.5	200	220	6,250	4,800	4,730
North Dakota	135.0	137.0	115	110	24,050	15,525	15,070
Ohio	8.7	7.9	195	185	2,254	1,697	1,462
Oregon-Malheur	6.4	5.2	375	390	2,788	2,400	2,028
-Other Co	38.6	44.8	475	475	23,136	18,335	21,280
Pennsylvania	20.5	20.5	180	230	4,730	3,690	4,715
Rhode Island	1.2	1.2	250	250	263	300	300
South Dakota	10.0	9.0	160	220	2,310	1,600	1,980
Utah	6.6	6.1	245	245	1,584	1,617	1,495
Washington	115.0	118.0	550	545	66,960	63,250	64,310
Wisconsin	62.5	68.0	320	345	22,100	20,000	23,460
Wyoming	1.9	2.1	250	275	483	475	578
Fall Total	**1,075.4**	**1,086.4**	**292**	**299**	**344,998**	**313,558**	**324,726**
U.S. TOTAL	**1,259.3**	**1,281.6**	**283**	**289**	**389,320**	**356,438**	**370,344**

Potatoes by County

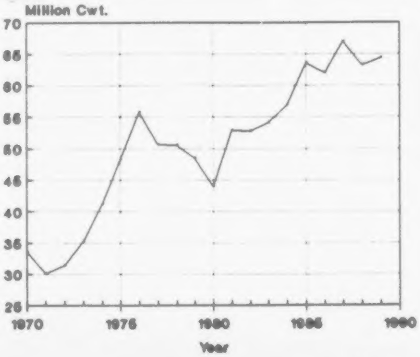
County and District	1988				1989			
	Acreage		Yield Per Acre	Production	Acreage		Yield Per Acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Cwt.	1,000 Cwt.	Acres		Cwt.	1,000 Cwt.
West								
Clark	500	500	320	160,000	500	500	330	165,000
Skagit	3,200	3,200	385	1,232,000	3,600	3,600	340	1,224,000
Whatcom	1,200	1,200	310	372,000	1,200	1,200	300	360,000
Other Counties	600	600	360	216,000	700	700	330	231,000
Total	**5,500**	**5,500**	**360**	**1,980,000**	**6,000**	**6,000**	**330**	**1,980,000**
Central								
Benton	20,800	20,800	610	12,687,000	-	-	-	-
Kittitas	1,100	1,100	350	385,000	-	-	-	-
Klickitat	800	800	300	240,000	-	-	-	-
Yakima	1,200	1,200	390	468,000	-	-	-	-
Other Counties	100	100	300	30,000	-	-	-	-
Total	**24,000**	**24,000**	**575**	**13,810,000**	**24,400**	**24,400**	**575**	**14,030,000**
Northeast								
Stevens	300	300	350	105,000	300	300	350	105,000
Other Counties	200	200	325	65,000	300	300	450	135,000
Total	**500**	**500**	**340**	**170,000**	**600**	**600**	**400**	**240,000**
East Central								
Adams	15,500	15.500	570	8,835,000	15,500	15,500	560	8,680,000
Franklin	28,000	28,000	555	15,540,000	28,000	28,000	555	15,530,000
Grant	34,200	34,200	550	18,805,000	34,700	34,700	545	18,908,000
Lincoln	-	-	-	-	1,800	1,800	490	882,000
Other Counties	300	300	400	120,000	-	-	-	-
Total	**78,000**	**78,000**	**555**	**43,300,000**	**80,000**	**80,000**	**550**	**44,000,000**
Southeast								
Walla Walla	7,000	7,000	570	3,990,000	-	-	-	-
Total	**7,000**	**7,000**	**570**	**3,990,000**	**7,000**	**7,000**	**580**	**4,060,000**
State Total	**115,000**	**115,000**	**550**	**63,250,000**	**118,000**	**118,000**	**545**	**64,310,000**

- Data not published at county level due to disclosure of individual operations.

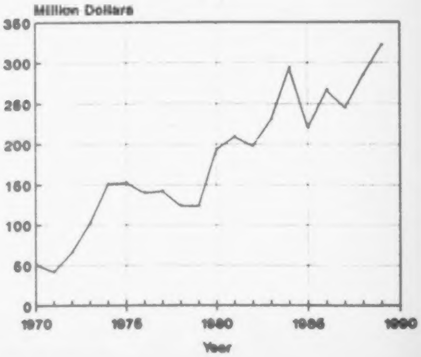
Potatoes - Harvested Acreage
Washington, 1970-1989



Potatoes - Production
Washington, 1970-1989



Potatoes - Value of Production
Washington, 1970-1989



Potato Program

The estimating program for potatoes includes a number of estimates that span more than a year. Nationally, potatoes are directed into seasonal groups of winter, spring, summer and fall. Washington is one of 24 fall potato states. Stocks estimates are made for the 15 major states that account for about 97 percent of the fall production total. Washington is the number 2 producing state of fall potatoes and accounts for about one-fifth of the nation's total.

Estimates for potatoes are made using information collected from the producers and from agribusinesses, mainly potato processors. Data from the growers are used for acreage, yield, production, and stocks estimates. Data from the potato processors are used for the potato processing report, cold storage, stocks and prices. Secondary information is utilized as check data, such as marketings and grower disposition surveys. Acreage estimates are set with a combination of survey indications that come from both a probability survey and a non-probability survey. A general description of a probability sample is where each operation in the state had a chance of being selected and a response is necessary for each operation selected. Potato growers are surveyed for acreage planted and intentions for harvest as of June 1 and the estimates are released in the July Crop Production Report. The next estimates of acreage are released in the November Crop Report and the Annual Crop Production Report in January. A potato grower survey is done in conjunction with the fall acreage and production survey in November and any revisions to the June estimate are based on information obtained in November. The final end-of-season estimate is published in the Potato Report published in late September the following year.

Yield estimates for fall potatoes are forecast as of November 1 and December 1. Washington has the highest average yield in the United States. Survey indications from potato producers are used in conjunction with an objective yield survey. The objective yield survey is relatively easy to understand in principle. Two units are laid out for each sample. Row widths and plant counts are taken in a 20 foot section of the row to establish an estimate of plants per acre. Three hills are dug from each unit and the potatoes weighed. The extension of the average weight per hill times the plant population produces an indication of gross yield. A post-harvest sample is used to estimate the quantity of potatoes left in the field after harvest and is deducted from the gross yield for the net yield, the quantity taken from the field. Although the procedure is straight forward, the key is randomly placing the samples in fields so that the 220 samples, selected in Washington State, will represent the state's acreage accurately. Information regarding varieties is also collected during the potato objective yield survey. In Washington, Russet Burbank is the most popular variety, as it can be used for both processing and fresh market.

Harvest begins in July for the early varieties of Shepody, Norkotas, and Norgolds. Harvest of the Russet Burbanks usually lasts through the middle of November. Stocks estimates begin on December 1 and run through May 1. Potato cellar operators are surveyed beginning December 1 and this data, along with disposition information collected from processors, is used to set the December 1 stocks estimate. Idaho, Washington and Oregon complete a Tri-State balance sheet for stocks each month from December 1 through May 1, where inshipments, outshipments, and the total disposition of potatoes within each state and the Tri-State area are tabulated. Processing data are published from October 1 through May 1. Due to disclosure problems, processing data for Idaho, Oregon and Washington are published as two estimates, Idaho and Malheur County Oregon, and Washington and Other Counties in Oregon. Potato stocks reports which contain processing, acreage and production are published from December 1 through May 1, at both the national and state levels.

Each year, a survey on disposition of the previous year's crop is done during June in conjunction with the acreage survey for the current year's planted acreage. The annual disposition and processing estimates are published during the end of September in the Annual Potatoes Bulletin.

Crop Progress for Potatoes, Washington
Percent of Activity Completed by Date Indicated

Activity	April					May				June		
Year	1	8	15	22	29	6	13	20	27	3	10	17
Planted												
1985	15	32	49	64	76	86	92	97	100			
1986	0	11	30	39	55	78	87	97	99			
1987	2	13	28	43	62	80	92	97	100			
1988	1	15	32	43	76	88	97	99	100			
1989	1	26	32	49	71	79	89	95	98			
1985-89 Avg	4	19	34	48	68	82	91	97	99			
Emerged												
1985		1	5	13	15	23	32	50	75	92	100	100
1986		4	8	15	23	29	34	41	54	74	93	99
1987		1	2	10	24	40	53	68	85	97	100	100
1988		0	4	20	33	41	54	70	83	94	99	100
1989		2	4	17	37	49	59	73	79	95	98	100
1985-89 Avg		2	5	15	26	36	46	60	75	90	98	100

Activity	July				August				September				
Year	8	15	22	29	5	12	19	26	2	9	16	23	30
Harvested													
1985	0	0	0	1	8	13	16	17	19	22	27	36	49
1986	0	0	0	0	1	3	9	13	18	24	29	31	37
1987	2	2	3	6	7	9	11	15	20	26	32	37	47
1988	1	2	3	4	8	11	16	22	27	37	35	40	52
1989	0	1	2	5	8	11	13	16	22	26	32	41	58
1985-89 Avg	1	1	2	3	6	9	13	17	21	26	31	37	49

Activity	October				November		
Year	7	14	21	28	4	11	18
Harvested							
1985	62	74	85	94	99	100	100
1986	44	53	68	81	88	94	100
1987	60	71	83	92	98	100	100
1988	60	71	84	91	95	99	100
1989	67	82	91	98	100	100	100
1985-89 Avg	59	70	82	91	96	99	100

Historic Potato Stocks and Production, Washington

CROP YEAR	PRODUCTION	STOCKS					
		DECEMBER	JANUARY**	FEBRUARY**	MARCH**	APRIL**	MAY**
					1,000 CWT.		
1949	6,434	1,550	1,300	1,030	710		
1950	7,115	2,400	2,000	1,530	980		
1951	6,504	1,150	880	590	360		
1952	6,268	1,200	910	650	380		
1953	6,482	1,350	1,060	790	590		
1954	7,926	1,400	1,080	770	510		
*1955	9,630	1,650	1,360	970	590		
1956	10,200	2,090	1,590	1,140	700		
1957	9,960	2,350	1,890	1,340	860		
*1958	10,920	2,050	1,630	1,260	980		
1959	9,660	1,710	1,410	990	775		
1960	10,075	2,150	1,750	1,250	930		
1961	12,890	3,100	2,250	1,550	950		
1962	11,737	3,600	2,900	2,000	1,250		
1963	11,720	3,300	2,600	1,600	1,050		
1964	11,685	2,450	1,700	1,200	700		
1965	18,088	7,050	5,400	4,200	2,950		
1966	21,830	8,300	7,150	5,550	3,950		
1967	22,090	10,660	8,800	6,600	4,400		
1968	24,173	10,430	8,800	7,050	5,100		
1969	29,796	15,300	13,100	10,300	7,800		
1970	33,590	18,500	16,000	12,500	9,700		
1971	30,110	16,450	13,500	10,350	7,500		
1972	31,365	15,800	13,400	10,300	7,100	4,200	
1973	35,260	18,600	15,600	12,600	9,100	5,500	
1974	41,160	22,500	20,500	16,800	12,800	8,900	
1975	48,300	27,900	24,100	19,900	15,000	10,000	
1976	55,800	33,200	29,700	25,000	20,100	15,200	
1977	50,600	28,400	24,700	20,800	15,900	11,300	
1978	50,505	32,000	28,800	24,000	19,300	14,500	9,500
1979	48,450	30,600	27,300	23,000	18,900	14,200	10,100
1980	43,935	24,500	22,000	18,600	14,600	11,000	7,300
1981	52,920	29,200	25,100	21,200	17,000	12,600	8,300
1982	52,800	29,200	25,700	21,600	17,100	13,200	8,600
1983	54,080	29,500	25,900	22,000	16,700	11,200	7,100
1984	56,925	29,600	25,900	20,800	16,600	11,300	7,000
1985	63,630	33,500	30,000	25,700	21,000	16,200	9,700
1986	61,950	32,300	28,000	24,400	20,400	14,600	8,700
1987	66,960	36,600	32,900	28,300	22,800	17,500	12,600
1988	63,250	36,700	32,100	27,700	22,500	16,200	10,700
1989	64,310	34,500	30,400	25,100	20,000	13,100	7,100

* Includes following quantities not harvested due to low prices: 1955 - 494,000 cwt., 1958 - 403,000 cwt.

** Calendar year following year of production.

Potato Price and Yield Comparisons, Washington and US

Year	Price per Cwt Wash	Price per Cwt US	Yield per Acre Wash	Yield per Acre US
	Dollars		Cwt.	
1882	1.33	.908	88	53.4
1883	.92	.688	61	57.4
1884	.50	.637	86	54.1
1885	.58	.733	75	50.6
1886	.90	.758	77	48.9
1887	.75	1.15	73	38.8
1888	.57	.652	75	55.2
1889	1.00	.598	66	50.2
1890	1.00	1.26	78	39.9
1891	.63	.602	83	60.1
1892	.83	1.10	67	45.3
1893	.65	.983	75	46.9
1894	.47	.892	74	41.3
1895	.47	.443	82	58.7
1896	.67	.483	76	53.1
1897	.47	.922	94	42.3
1898	.65	.703	74	50.1
1899	.83	.688	85	55.6
1900	.78	.717	71	52.0
1901	1.02	1.28	71	42.2
1902	.63	.790	82	57.8
1903	.60	1.02	85	53.8
1904	.93	.755	68	65.3
1905	.77	1.02	80	55.3
1906	.93	.845	76	62.9
1907	.83	1.01	87	59.9
1908	1.12	1.16	68	53.6
1909	.87	.945	79	63.7
1910	1.33	.970	68	56.3
1911	1.33	1.55	79	51.4
1912	.58	.922	83	69.5
1913	.90	1.11	76	57.4
1914	1.05	.913	71	64.7
1915	1.07	1.14	76	58.9
1916	2.08	2.50	84	49.6
1917	1.43	2.12	66	62.9
1918	1.65	1.95	68	57.7
1919	3.18	3.18	66	54.1
1920	1.78	2.10	99	67.1
1921	1.50	1.83	96	54.2
1922	.85	1.11	99	63.9
1923	1.32	1.56	96	65.1
1924	1.78	1.14	90	74.2
1925	2.52	2.83	93	63.3
1926	1.65	2.15	108	68.6
1927	1.32	1.66	114	69.7
1928	1.03	.880	90	73.3
1929	2.40	2.17	99	66.0
1930	1.30	1.47	96	65.7
1931	.80	.748	93	66.1
1932	.67	.627	96	63.0
1933	1.13	1.34	108	60.2
1934	.90	.707	98	67.7
1935	1.23	.980	102	66
1936	1.93	1.87	109	66
1937	.68	.837	120	74
1938	.95	.897	108	74
1939	1.00	1.16	115	73
1940	.92	.85	129	80
1941	1.40	1.31	135	79
1942	2.52	1.90	123	83
1943	2.38	2.10	138	85
1944	2.35	2.40	141	83
1945	2.42	2.30	159	94
1946	2.15	2.02	168	116
1947	2.45	2.67	219	117
1948	2.38	2.53	228	136
1949	2.30	2.10	222	137
1950	1.80	1.50	230	153
1951	2.23	2.68	232	145
1952	3.11	3.21	241	151
1953	1.21	1.31	240	151
1954	1.68	2.15	264	155
1955	1.05	1.77	268	162
1956	1.58	2.02	262	179
1957	1.34	1.91	277	178
1958	.94	1.31	260	187
1959	1.47	2.27	276	184
1960	1.89	2.00	288	185
1961	.98	1.36	300	198
1962	1.17	1.67	301	197
1963	1.28	1.78	335	205
1964	2.36	3.50	300	190
1965	1.59	2.53	351	210
1966	1.69	2.04	376	210
1967	1.55	1.87	345	209
1968	1.70	2.23	378	214
1969	1.59	2.24	416	221
1970	1.51	2.21	386	229
1971	1.40	1.90	386	230
1972	2.09	3.02	418	236
1973	2.90	4.90	430	230
1974	3.65	4.01	420	246
1975	3.15	4.48	460	255
1976	2.50	3.59	450	261
1977	2.80	3.55	460	261
1978	2.45	3.38	455	267
1979	2.55	3.44	475	272
1980	4.40	6.55	505	265
1981	3.95	5.42	490	276
1982	3.75	4.45	480	280
1983	4.25	5.82	520	269
1984	5.15	5.69	495	279
1985	3.45	3.92	505	299
1986	4.30	5.03	525	296
1987	3.65	4.38	540	301
1988	4.50	6.02	550	283
1989	5.00	6.85	545	289

MINT

Washington continues to be the leader in **spearmint** oil production in the United States. Growers produced 1.1 million pounds of spearmint oil in 1989, accounting for 60 percent of the total U.S. production. Production decreased 14 percent due to reduction in average yield of 26 pounds to 104 pounds per acre in 1989. The poor yield was the result of a damaging arctic blast received in February which killed many of the plants. The State yield per acre was 34 pounds greater than the national average of 70 pounds per acre. The average price for both Native and Scotch Spearmint were higher than last year, although the State average spearmint price of $12.30 per pound was less than the national average of $13.90 per pound.

Washington ranks second in the U.S. behind Oregon in **peppermint** oil production. Washington growers accounted for 24 percent of the total U.S. production, while Oregon accounted for 47 percent of the national production. Washington growers had the highest average yield in the U.S. at 91.0 pounds per acre, 25 pounds above the national average. The average price dropped significantly in 1989 to $10.70 per pound and was well below the national average price of $13.00 per pound.

Native Spearmint Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1980	11,800	107	1,258	8.50
1981	9,300	135	1,253	7.10
1982	3,400	128	435	9.00
1983	5,000	103	515	9.40
1984	6,800	115	784	10.00
1985	9,000	125	1,125	9.50
1986	8,000	156	1,244	9.00
1987	5,900	149	879	9.70
1988	5,800	142	824	10.00
1989	6,300	114	718	10.50

Peppermint Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1980	11,600	69	800	8.50
1981	8,300	78	647	8.50
1982	8,900	80	712	8.20
1983	9,500	80	760	9.40
1984	12,400	84	1,042	10.10
1985	13,200	87	1,148	8.30
1986	10,900	89	970	8.35
1987	11,500	87	1,001	10.40
1988	16,500	86	1,419	14.30
1989	17,300	91	1,574	10.70

Scotch Spearmint Acreage, Production and Price

Year	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	Acres	Pounds	1,000 Pounds	Dollars/ Pound
1980	4,200	59	246	9.90
1981	3,500	59	206	11.50
1982	3,500	69	241	14.70
1983	4,400	90	397	14.70
1984	4,500	104	470	14.50
1985	5,000	96	480	14.00
1986	5,000	123	615	14.00
1987	4,300	123	529	14.00
1988	3,900	112	437	14.90
1989	4,300	89	383	15.70

Mint by County

	1988			1989		
Crop and County	Acres Harvested	Yield Per Acre	Production	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	1,000 Pounds	Acres	Pounds	1,000 Pounds
Scotch Spearmint						
Grant	400	100.0	40	500	62.0	31
Yakima	2,700	114.0	308	3,000	92.0	276
Other 1/	800	111.3	89	800	95.0	76
Total	**3,900**	**112.0**	**437**	**4,300**	**89.0**	**383**
Native Spearmint						
Grant	600	114.0	68	500	92.0	46
Yakima	4,700	147.0	691	5,200	115.0	598
Other 1/	500	130.0	65	600	125.0	75
Total	**5,800**	**142.0**	**824**	**6,300**	**114.0**	**719**
All Spearmint						
Grant	1,000	108.0	108	1,000	77.0	77
Yakima	7,400	135.0	999	8,200	106.6	874
Other 1/	1,300	118.5	154	1,400	107.9	151
Total	**9,700**	**130.0**	**1,261**	**10,600**	**104.0**	**1,102**
Peppermint						
Adams	1,400	90.0	126	1,200	100.0	120
Grant	4,200	82.9	348	4,000	95.0	380
Yakima	9,700	88.0	854	10,700	92.0	984
Other 2/	1,200	76.0	91	1,400	64.3	90
Total	**16,500**	**86.0**	**1,419**	**17,300**	**91.0**	**1,574**

1/ Other Counties include Adams and Benton Counties.

2/ Other Counties include Benton, Clark, and Lincoln Counties.

HOPS

Washington led the Nation in the production of hops, with over 43 million pounds for the 1989 crop, and accounted for 73 percent of the U.S. supply. The production for 1989 was 9 percent more than a year earlier and was the result of more acres being harvested with higher yields. Acreage harvested, at 24,336 acres, increased 5 percent over 1988, while the per acre yield of 1,782 pounds was 61 pounds higher than a year earlier.

The season average price of $1.33 per pound was 3 cents less than 1988. The value of production for Washington hops in 1989 was $57.7 million, 7 percent more than 1988.

Data for 1988 and 1989 crops are presented by variety. Cluster is our most popular variety, followed by Galena, Willamette and Tettnanger. However, the Cluster variety is declining in acreage while the other three varieties are increasing in importance in Washington State.

Data collection for the 1988-89 basic hop data was funded through the Hop Growers of America and the various state hop commissions. These basic data include the acreage strung for harvest, yield and production, plus stocks data for March 1 and September 1.

Acreage, Production and Price

Year	Washington				United States			
	Acres Harvested	Yield Per Acre	Production	Season Avg. Price	Acres Harvested	Yield Per Acre	Production	Season Avg. Price
	1,000	Pounds	1,000 Pounds	Cents/ Pound	1,000	Pounds	1,000 Pounds	Cents/ Pound
1980	26.9	2,080	55,952	154.0	37.1	2,037	75,560	151.0
1981	31.3	1,900	59,470	150.0	43.1	1,836	79,140	151.0
1982	28.1	2,070	58,167	160.0	39.6	1,980	78,558	174.0
1983	26.5	1,930	51,145	180.0	36.9	1,850	68,111	193.0
1984	22.7	1,920	43,584	199.0	30.8	1,820	56,167	210.0
1985 1/	19.5	1,870	36,465	180.0	28.1	1,770	49,713	203.0
1986 1/	17.4	2,040	35,496	159.0	25.0	1,960	49,062	178.0
1987 1/	20.1	1,860	37,398	132.0	28.3	1,770	50,048	151.0
1988 1/	23.1	1,721	39,751	136.0	33.4	1,638	54,696	140.0
1989 1/	24.3	1,782	43,377	133.0	34.5	1,717	59,326	138.0

1/ California data are combined with Washington's to avoid disclosure of individual operations.

Hop Stocks, U.S.

Year	March 1				September 1			
	Stocks Held By: 1/			Total Stocks	Stocks Held By: 1/			Total Stocks
	Growers 2/	Dealers	Brewers		Growers 2/	Dealers	Brewers	
	1,000 Lbs.							
1981	250	16,360	50,410	67,020	240	1,950	32,240	34,430
1982	1,400	16,000	54,290	71,690	1,200	2,090	43,740	47,030
1983	1,600	16,670	62,050	80,320	1,380	3,000	56,700	61,080
1984	1,360	19,530	79,440	100,330	1,360	6,256	60,480	68,096
1985	1,660	15,196	72,949	89,805	1,400	10,930	58,130	70,460
1986	1,960	15,720	72,240	89,920	1,390	8,930	60,630	70,950
1987	1,670	13,970	72,860	88,500	1,620	6,580	62,430	70,630
1988	1,950	13,640	66,980	82,570	1,750	9,160	49,090	60,000
1989	2,080	21,790	56,630	80,500	3/	8,500	43,200	51,700
1990	3/	18,790	57,850	76,640	4/	4/	4/	4/

1/ Includes equivalent pounds of dry hops held in form of extract or pellets.

2/ Includes growers' stocks held in extract form.

3/ Included in dealers' stocks to avoid disclosure of individual operations.

4/ September 1 stocks will be released on September 24, 1990.

Hops by Variety

Variety/ Crop Year	Washington 1/						United States					
	Acres		Yield		Production		Acres		Yield		Production	
	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989
	Acres		Pounds		1,000 Pounds		Acres		Pounds		1,000 Pounds	
Aquila	320	356	1,520	2,320	487.0	825.9	320	466	1,522	2,164	487.0	1,008.5
Banner	340	356	1,650	2,380	561.0	847.3	340	466	1,650	2,321	561.0	1,081.6
Cascade	920	1,297	1,990	1,980	1,831.0	2,568.0	920	1,297	1,990	1,980	1,831.0	2,568.0
Chinook	1,000	1,269	1,990	1,880	1,990.0	2,385.7	1,220	1,489	1,909	1,864	2,328.8	2,775.1
Cluster	7,950	6,374	2,030	2,040	16,100.0	13,003.0	8,440	6,864	2,014	2,038	16,996.7	13,987.9
Eroica	640	472	1,940	1,990	1,242.0	939.3	1,070	822	1,808	1,841	1,934.3	1,513.3
Fuggles	-	-	-	-	-	-	850	801	1,090	1,200	926.5	961.2
Galena	4,900	5,735	1,890	1,920	9,252.0	11,011.2	5,570	6,424	1,883	1,888	10,485.6	12,129.6
Nugget	1,800	2,241	1,620	1,940	2,916.0	4,347.5	3,270	3,519	1,809	1,973	5,914.8	6,941.8
Olympic	270	279	2,020	1,770	545.0	493.8	270	279	2,020	1,770	545.0	493.8
Perle	580	779	1,040	1,180	603.0	919.2	910	1,064	1,069	1,274	972.6	1,355.3
Tettnang	2,200	2,410	890	1,040	1,958.0	2,506.4	2,670	2,941	927	1,047	2,475.0	3,079.9
Willamette	2,050	2,507	1,020	1,310	2,091.0	3,284.2	5,880	6,299	1,209	1,479	7,111.4	9,313.5
Other	130	261	1,350	940	175.0	245.3	1,670	1,817	1,273	1,165	2,126.3	2,116.9
Total	**23,100**	**24,336**	**1,721**	**1,782**	**39,751.0**	**43,376.8**	**33,400**	**34,548**	**1,638**	**1,717**	**54,696.0**	**59,326.4**

1/ California is included with Washington to avoid disclosure of individual operations.

SEED CROPS

Harvested acreage for alfalfa seed increased for the third consecutive year to 20,500 acres, 700 acres more than the previous year. Average yield was up 70 pounds at 730 pounds per acre, and production totaled 149,000 cwt. The season average price, at $118.00 per cwt., was down $11.00 from 1988, giving a value of production for alfalfa seed at $17.6 million.

Because of the decrease in demand for Bluegrass seed, the season average price for Kentucky Bluegrass seed dropped $52.00 from 1988 to $62.00 per cwt. in 1989. Harvested acreage decreased 500 acres to 42,000 acres. However yield, at 440 pounds per acre, and production, at 185,000 cwt., increased 30 pounds per acre and 9,000 cwt., respectively. The decrease in the season average price brought the value of production down $8.6 million to a total of $11.5 million.

Red clover seed showed a marked decline in harvested acreage at 2,500 acres, a decrease of 1,600 acres from 1988. Production was also down 8,000 cwt. to 12,000 cwt. Yield was off only slightly at 480 pounds per acre. Average price followed the downward trend by coming in at $93.00 per cwt., as compared with $111.00 per cwt. for the previous year.

In contrast to Red Clover seed, other grass seeds, which include Brome, Wheatgrasses and Fescues, showed increases over the previous year. Harvested acreage, at 8,000 acres, was the highest that it has been in the last five years. Yield and production were 350 pounds per acre and 28,000 cwt., respectively. Even though the 1989 season average price, at $58.00 per cwt., was less than the 1988 price, the value of production, at $1.6 million, was up due to the increase in production.

Acreage, Production, Price, and Value

Crop and Year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt	Value of Production
	Acres	Pounds	Cwt.	Dollars	1,000 Dollars
Alfalfa					
1985	21,000	670	140,700	100.40	14,127
1986	18,000	580	104,330	101.00	10,537
1987	19,000	560	106,400	105.00	11,172
1988	19,800	660	130,000	129.00	16,770
1989	20,500	730	149,000	118.00	17,582
Kentucky Bluegrass					
1985	34,000	240	81,600	102.40	8,356
1986	24,400	440	107,360	124.00	13,407
1987	35,000	440	154,000	126.00	19,404
1988	42,500	410	176,000	114.00	20,064
1989	42,000	440	185,000	62.00	11,470
Red Clover					
1985	3,000	460	13,800	96.90	1,337
1986	3,200	460	14,720	101.00	1,487
1987	4,500	490	22,050	89.00	1,962
1988	4,100	490	20,000	111.00	2,220
1989	2,500	480	12,000	93.00	1,116
Other Grass					
1985	4,300	330	14,200	96.83	1,375
1986	1,600	450	7,200	100.00	720
1987	4,400	500	22,000	140.00	3,080
1988	6,900	300	21,000	69.00	1,449
1989	8,000	350	28,000	58.00	1,624
State Total					
1985	62,300	402	250,300	100.66	25,195
1986	47,200	495	233,610	111.94	26,151
1987	62,900	484	304,450	116.99	35,618
1988	73,300	473	347,000	116.72	40,503
1989	73,000	512	374,000	85.01	31,792

Grass Seeds by County

Crop and County	1988			1989		
	Acres Harvested	Yield Per Acre	Production	Acres Harvested	Yield Per Acre	Production
	Acres	Pounds	Cwt.	Acres	Pounds	Cwt.
Alfalfa						
Franklin	1,800	610	11,000	2,200	820	18,000
Grant	3,200	750	24,000	3,500	690	24,000
Walla Walla	13,500	640	87,000	13,600	720	98,000
Other	1,300	620	8,000	1,200	750	9,000
Total	**19,800**	**660**	**130,000**	**20,500**	**730**	**149,000**
Kentucky Bluegrass						
Adams	2,700	560	15,000	3,000	500	15,000
Garfield	7,000	300	21,000	5,200	310	16,000
Spokane	24,600	450	111,000	24,400	460	112,000
Walla Walla	2,900	410	12,000	3,000	400	12,000
Whitman	3,600	310	11,000	3,400	470	16,000
Other	1,700	350	6,000	3,000	470	14,000
Total	**42,500**	**410**	**176,000**	**42,000**	**440**	**185,000**
Red Clover						
Adams	700	500	3,500	600	400	2,400
Clark	400	380	1,500	400	400	1,600
Franklin	500	500	2,500	700	540	3,800
Grant	2,000	500	10,000	500	540	2,700
Other	500	500	2,500	300	500	1,500
Total	**4,100**	**490**	**20,000**	**2,500**	**480**	**12,000**
Other Grass Seeds						
Adams	-	-	-	1,800	200	3,600
Franklin	700	360	2,500	1,000	600	6,000
Garfield	600	250	1,500	-	-	-
Lincoln	900	280	2,500	1,400	200	2,800
Spokane	2,600	250	6,500	1,700	260	4,400
Walla Walla	1,100	360	4,000	700	600	4,200
Other	1,000	400	4,000	1,400	500	7,000
Total	**6,900**	**300**	**21,000**	**8,000**	**350**	**28,000**

- Estimates included in "Other Counties".

FRUIT

Washington is known worldwide as a high quality fruit state. There are many factors that are important in the production of fruit in Washington. The climate is ideal for many fruits with the quantity of sunlight, cool nights and an ample supply of water. The orchardists are very knowledgeable and continue to fund research for improved methods and varieties. The marketing of the fruit is probably as critical as any aspect of the industry which Washington is very well qualified and competitive.

Fruit has always been important, even in the pioneer days. Fruit trees were brought with the early settlers as one of the staples for their food needs. In the early days of 1890 to 1900, there was as much fruit west of the Cascades as the eastern part of the State. Transportation of the fruit was a limiting factor for the development of commercial production. Another limiting factor was lack of adequate irrigation. Many of the growers in the early days had little experience in either growing fruit, or with irrigation. Experience and education worked well to teach the early growers improvements in picking, packing, shipping and marketing.

The first big expansion for fruit was between 1900 and 1910 in Central Washington. During this period, the State's fruit industry remained relatively the same, although it shifted from western and southeastern areas to Central Washington. The largest expansion in early history was between 1910 and 1920 when the number of bearing age fruit trees reached 10.7 million. In part, this great expansion resulted from the high prices that occured during World War I.

Apples have always been the most popular fruit produced in Washingon. Even in 1890, almost 60% of all trees of bearing age were apples. This dropped to 57% of the total in 1900 as a large number of soft fruit trees reached bearing age. Apple trees comprised about 61% in 1910, and in 1920 accounted for three- fourths of all bearing trees in the state. With the second great period of expansion in soft fruits, the percentage of apple trees dropped to 57% (1930), to 47% (1940), and then to 43% in 1950. The 1986 Washington Fruit Survey showed 37.7 million total fruit trees in the state, of which 30.6 million or 81% were apple trees.

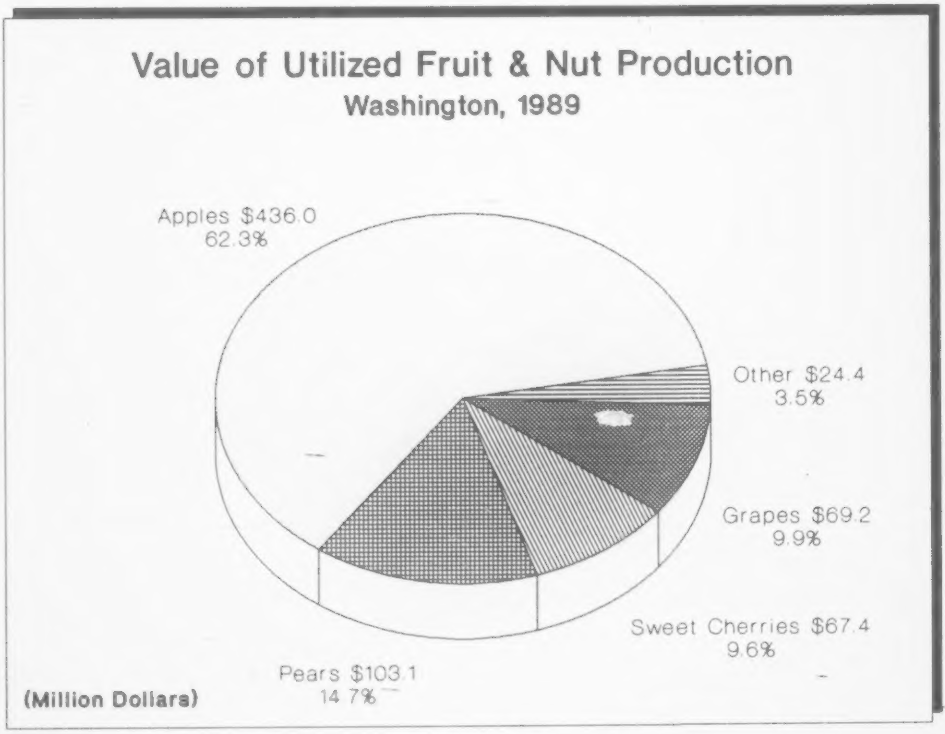
Washington's reputation for quality apples is justly based in large measure upon the production of Delicious apples. In 1949, the Winesap accounted for more trees than the Standard, Red, and Golden Delicious varieties combined. By 1986 however, this had shifted dramatically to the Red Delicious varieties with 22.0 million Red Delicious trees or 72% of the total apple trees.

Washington can be compared with other states in some of its cultural practices. About one-fourth of the fruit trees have been planted within the past 10 years. This relatively young average age along with an agressive attitude for expansion produced a competitive industry. Trees per acre is one measure of improved cultral practices. Washington's apples average is 190 trees per acre compared to Oregon with 164, New York at 74 and Michigan with 79 trees per acre. A similiar pattern is true with sweet cherries and pears. Sweet cherries average 110 trees per acre with Oregon at 65 and Michigan at 83. Pear trees per acre in Washington average 159 compared with 135 in Oregon and 95 in Michigan.

The farmgate value of the 1989 fruit crop in Washington was $700 million, the second highest of record. The 1989 crop was worth 3% less than the 1988 crop of $724 million. Washington leads the nation in three crops which contributed 81% of the total fruit value, apples, sweet cherries, and other pears. Apples tied the record for production, and sweet cherries and other pears set new records.

Many topics were presented during 1989 in newspapers and magazine articles. Probably the most noteable was the Alar problem that had a very disruptive effect on apples. The season average price for apples averaged $174 per ton, down one-third from the 1988 prices. The grape crop was the second largest of record and the Concord grape growers received record prices. The apricot crop was the smallest since 1981, but the price averaged a record $1,400 per ton.

The cherry crop was not a record for production, but was a record for the quantity utilized. The 1983 crop was 5,000 tons larger, but rain damage to the crop reduced the quantity utilized. The 1989 crop at 84,000 tons utilized was 3,100 tons more than the 1983 crop. Bartlett pear production totaled 157,000 tons, 9% less than the record of 172,125 tons for 1944, but record prices brought a record value of production at $40.4 million.



FRUIT & NUT CROPS
Utilized Production, Price, and Value, Washington

Crop and Year	Bearing Acreage	Yield Per Acre	Total Production	Utilized Production	Average Price	Value of Utilized Production 1/
	Acres	Tons	Tons	Tons	$/Ton	1,000 Dollars
Apples						
1985	112,000	9.15	1,025,000	1,025,000	340.00	348,740
1986	126,000	12.55	1,580,000	1,580,000	310.00	488,400
1987	135,000	18.50	2,500,000	2,400,000	146.00	348,000
1988	142,000	13.75	1,950,000	1,950,000	260.00	505,050
1989	150,000	16.67	2,500,000	2,500,000	174.00	436,000
Apricots						
1985	900	2.67	2,400	2,400	628.00	1,508
1986	1,000	4.30	4,300	4,300	772.00	3,319
1987	1,100	3.55	3,900	3,900	709.00	2,765
1988	1,200	5.08	6,100	6,100	682.00	4,162
1989	1,200	1.33	1,600	1,600	1,400.00	2,236
Sweet Cherries						
1985	11,200	3.38	37,900	35,300	1,030.00	36,527
1986	11,900	5.25	62,500	62,500	951.00	59,437
1987	12,200	6.07	74,000	74,000	923.00	68,332
1988	12,800	4.84	62,000	62,000	983.00	60,918
1989	13,300	6.32	84,000	84,000	802.00	67,390
Tart Cherries						
1985	-	-	-	650	855.00	556
1986	-	-	-	900	631.00	568
1987	-	-	-	2,100	325.00	683
1988	-	-	-	2,600	360.00	936
1989	-	-	-	3,200	356.00	1,139
Bartlett Pears						
1985	11,300	9.82	111,000	111,000	248.00	27,484
1986	11,700	10.80	126,000	126,000	225.00	28,352
1987	12,100	14.10	171,000	171,000	189.00	32,322
1988	12,100	12.10	147,000	147,000	244.00	35,868
1989	12,200	12.90	157,000	157,000	258.00	40,430
Other Pears						
1985	9,600	11.90	114,000	114,000	365.00	41,642
1986	10,000	14.00	140,000	140,000	339.00	47,480
1987	10,800	15.30	165,000	165,000	215.00	35,395
1988	11,300	14.40	163,000	163,000	335.00	54,618
1989	11,600	16.60	192,000	192,000	327.00	62,688

Utilized Production, Price, and Value, Washington (continued)

Crop and Year	Bearing Acreage	Yield Per Acre	Total Production	Utilized Production	Average Price	Value of Utilized Production 1/
	Acres	Tons	Tons	Tons	$/Ton	1,000 Dollars
Peaches						
1985	2,300	6.75	15,500	15,500	476.00	7,365
1986	2,400	8.35	20,000	20,000	456.00	9,105
1987	2,500	8.60	21,500	21,500	330.00	7,076
1988	2,600	9.60	25,000	25,000	386.00	9,660
1989	2,700	8.15	22,000	22,000	510.00	11,212
Prunes						
1985	1,400	7.29	10,200	10,200	220.00	2,240
1986	1,400	6.50	9,100	9,100	366.00	3,329
1987	1,500	8.20	12,300	12,300	134.00	1,650
1988	1,600	8.44	13,500	13,500	187.00	2,521
1989	1,600	8.44	13,500	13,500	162.00	2,187
Grapes, All						
1985	27,000	4.30	116,100	116,100	178.00	20,642
1986	27,900	5.59	156,000	156,000	238.00	37,120
1987	28,200	8.85	249,500	246,000	225.00	55,356
1988	29,200	6.23	182,000	182,000	245.00	44,601
1989	29,100	7.87	229,000	229,000	302.00	69,158
Filberts						
1985	400	.75	-	300	957.00	287
1986	400	.50	-	200	895.00	179
1987	400	.75	-	300	1,160.00	348
1988	400	.50	-	200	891.00	178
1989	360	.56	-	200	1,030.00	206
Other 2/						
1985	-	-	-	5,400	-	3,030
1986	-	-	-	9,100	-	5,750
1987	-	-	-	9,000	-	3,560
1988	-	-	-	12,700	-	5,715
1989	-	-	-	13,800	-	7,450
State Total						
1985	-	-	-	1,435,850	341.28	490,021
1986	-	-	-	2,108,100	324.01	683,039
1987	-	-	-	3,105,100	178.90	555,487
1988	-	-	-	2,564,100	282.45	724,227
1989	-	-	-	3,216,300	217.67	700,096

1/ Price based at packinghouse door and processing plant door.
2/ Includes miscellaneous fruit and nuts.
- Not available.

Utilized Production by Fruit Districts, Washington

Area and Year	Apples	Apricots	Sweet Cherries	Bartlett Pears	Other Pears	Peaches	Prunes
				Tons			
West							
1985	900	-	100	20	-	50	30
1986	800	-	100	20	-	70	20
1987	1,000	-	50	20	-	70	20
1988	1,500	-	50	20	-	70	20
1989	2,000	-	50	20	-	50	20
Mid-Columbia							
1985	2,400	30	800	2,800	6,900	400	80
1986	4,400	60	1,100	4,200	7,000	550	70
1987	7,200	60	1,200	6,400	9,000	550	60
1988	7,500	50	1,000	3,900	10,500	600	60
1989	10,000	30	1,000	6,000	12,000	800	60
Wenatchee							
1985	517,000	1,400	15,500	28,500	87,000	2,000	30
1986	600,000	1,550	17,000	24,400	96,500	2,700	40
1987	1,000,000	1,900	26,500	34,500	112,000	2,800	40
1988	680,000	2,500	27,000	33,000	107,000	2,500	40
1989	991,000	1,150	29,500	33,000	131,000	2,400	100
Yakima Valley							
1985	388,000	800	15,700	78,800	19,500	11,200	9,100
1986	785,000	2,200	39,000	96,000	35,700	13,900	7,900
1987	1,125,000	1,400	40,500	127,000	42,700	15,000	10,900
1988	940,000	3,100	28,200	105,000	42,900	19,100	12,100
1989	1,118,000	300	48,200	112,000	45,900	15,200	12,200
Columbia Basin							
1985	110,000	120	3,000	700	550	1,600	900
1986	180,000	400	5,000	1,240	750	2,500	1,000
1987	250,000	450	5,500	3,000	1,250	2,800	1,200
1988	300,000	380	5,500	5,000	2,550	2,500	1,200
1989	350,000	80	5,000	5,800	3,000	3,200	1,000
Northeast							
1985	3,200	30	180	20	50	150	20
1986	4,000	60	200	40	50	180	20
1987	6,800	60	100	20	50	180	20
1988	6,000	50	100	20	50	150	20
1989	4,000	30	150	40	100	200	20
Southeast							
1985	3,500	20	20	160	-	100	40
1986	5,800	30	100	100	-	100	50
1987	10,000	30	150	60	-	100	60
1988	15,000	20	150	60	-	80	60
1989	25,000	10	100	140	-	150	100
Total							
1985	1,025,000	2,400	35,300	111,000	114,000	15,500	10,200
1986	1,580,000	4,300	62,500	126,000	140,000	20,000	9,100
1987	2,400,000	3,900	74,000	171,000	165,000	21,500	12,300
1988	1,950,000	6,100	62,000	147,000	163,000	25,000	13,500
1989	2,500,000	1,600	84,000	157,000	192,000	22,000	13,500

- Not applicable

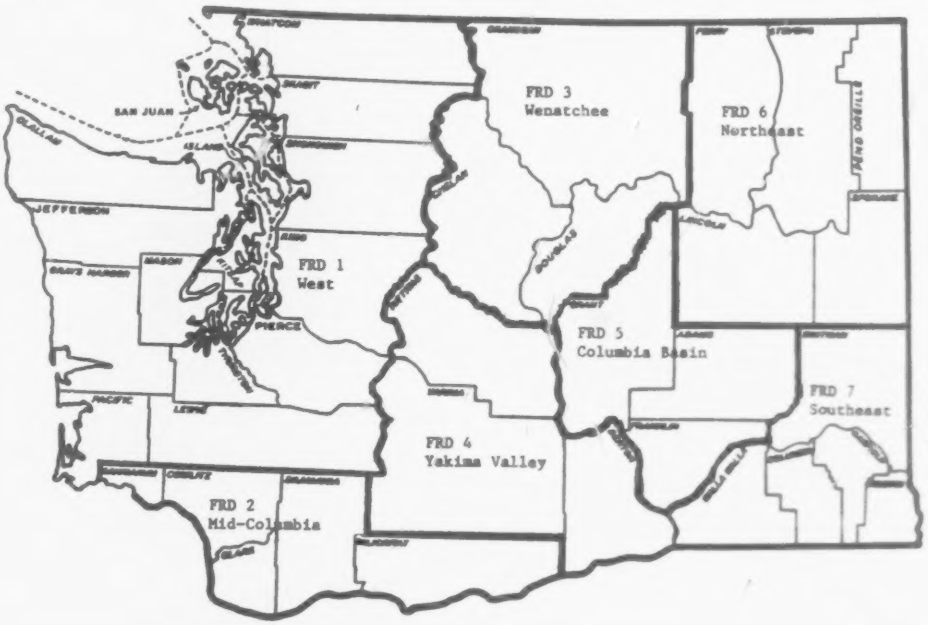
Fruit Harvesting Costs, Washington

Washington fruit harvest costs for 1989 were quite variable. Harvest costs for apricots, sweet cherries and pears were higher than the previous year, while costs were lower for apples, peaches and prunes. Picking costs accounted for the major share of the total harvest costs, with 70 and 89 percent, respectively, for apples and sweet cherries. This compares with 65 and 84 percent, respectively, for 1988. Other harvest costs include hauling, boxes and bins, and supervison.

Fruit Harvesting Costs, Washington

Year	Apples	Apricots	Sweet Cherries	Pears		Peaches	Prunes
				Bartlett	Other		
	$/Bulk Bin			$/Ton			
1980	11.94	47.50	213.00	23.20	24.60	49.80	40.30
1981	12.54	70.50	231.00	24.20	24.20	54.40	43.60
1982	12.90	72.70	225.00	24.20	25.10	52.00	43.50
1983	12.87	73.60	233.00	24.40	24.90	54.00	44.30
1984	13.52	76.00	232.00	22.70	23.70	57.70	49.10
1985	13.90	76.00	246.00	25.40	27.50	55.80	55.40
1986	13.61	68.00	240.00	23.90	24.00	61.00	52.00
1987	14.45	87.00	247.00	23.50	24.30	58.30	53.90
1988	15.48	74.00	220.00	24.10	25.70	60.80	48.80
1989	15.13	80.00	262.00	26.10	28.60	58.20	46.60

Fruit Reporting Districts (FRD)


SAN JUAN
JEFFERSON
MASON
PIERCE
PACIFIC
COWLITZ
FRD 1
West
FRD 2
Mid-Columbia
FRD 3
Wenatchee
FRD 4
Yakima Valley
FRD 5
Columbia Basin
FRD 6
Northeast
FRD 7
Southeast

APPLES

Washington is the leading apple producing state with 50 percent of the Nation's supply during 1989. This compares with 43 and 47 percent, respectively, of the 1988 and 1987 total U.S. output. The total production of Washington apples during 1989 was 5.0 billion pounds (119.0 million boxes) which also matched the 1987 record crop. However, the amount utilized in the fresh market and processing segments during 1989 was a record high 5.0 billion pounds, which surpassed the 1987 level of 4.8 billion pounds utilized. The difference between total and utilized production for 1987 was the amount harvested but not sold and unharvested apples left in the orchard.

The 5.0 billion pounds sold from the 1989 crop was a record high. The fresh market accounted for a record 3.5 billion pounds (83.3 million boxes). Processed utilization was 1.5 billion pounds during 1989 which was 300 million pounds below the record quantity processed from the 1987 crop.

Production, Value, and Disposition

Year	Production		Average Price Per Lb.	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Lb.	Quantity	Price/Ton
	Million Pounds		Cents	1,000 Dollars	Million Pounds	Cents	Million Pounds	Dollars
1980	3,005	3,005	8.2	247,695	2,250	9.7	755	77.00
1981	2,760	2,760	10.9	301,530	2,070	13.4	690	70.00
1982	2,615	2,615	9.7	252,895	2,030	10.7	585	121.00
1983	3,055	3,055	11.4	348,790	2,255	13.8	800	94.40
1984	2,950	2,950	11.1	326,220	2,172	13.3	778	95.50
1985	2,050	2,050	17.0	348,740	1,590	20.4	460	105.00
1986	3,160	3,160	15.5	488,400	2,440	18.6	720	95.60
1987	5,000	4,800	7.3	348,000	3,000	10.4	1,800	39.80
1988	3,900	3,900	13.0	505,050	2,850	16.1	1,050	87.00
1989	5,000	5,000	8.7	436,000	3,500	11.0	1,500	67.50

1/ Prices based at packinghouse door and processing plant door.

Processed Apple Utilization

Year	Canned		Juice		Other		Total Quantity 1/
	Quantity	Price/ Ton	Quantity	Price/ Ton	Quantity	Price/ Ton	
	Million Pounds	Dollars	Million Pounds	Dollars	Million Pounds	Dollars	Million Pounds
1980	89	70.00	505	76.00	161	84.00	755
1981	97	87.00	430	65.00	163	73.00	690
1982	80	145.00	331	112.00	174	127.00	585
1983	99	112.00	440	85.00	261	102.00	800
1984	92	117.00	432	70.00	254	131.00	778
1985	80	129.00	236	78.00	144	134.00	460
1986	100	126.00	430	77.00	190	122.00	720
1987	150	73.80	1,400	32.80	250	58.70	1,800
1988	160	110.00	620	73.00	270	105.00	1,050
1989	245	105.00	990	52.30	265	89.60	1,500

1/ Includes frozen and dried utilization.

Apples: Holdings in Refrigerated Warehouses

Date	Washington 1987-88	Washington 1988-89	Washington 1989-90	Pacific Region 1/ 1987-88	Pacific Region 1/ 1988-89	Pacific Region 1/ 1989-90	United States 1987-88	United States 1988-89	United States 1989-90
	Million Pounds								
Sept. 30	2,000	1,350	1,800	2,129	1,460	1,902	2,687	1,858	2,261
Oct. 31	3,409	2,845	2,851	3,618	3,001	2,983	5,390	4,601	4,468
Nov. 30	2,978	2,296	2,459	3,165	2,423	2,583	4,697	3,904	3,853
Dec. 31	2,547	1,975	2,087	2,258	2,047	2,187	3,944	3,266	3,221
Jan. 31	2,082	1,666	1,689	2,197	1,723	1,813	3,159	2,660	2,572
Feb. 28	1,665	1,380	1,398	1,749	1,424	1,495	2,418	3,000	2,025
Mar. 31	1,127	1,067	986	1,183	1,094	1,049	1,584	1,546	1,400
Apr. 30	822	807	778	864	825	840	1,093	1,069	1,004
May 31	*	*	*	507	552	532	552	619	590
Jun. 30	*	*	*	226	320	262	248	347	284
Jul. 31	*	*	*	79	166	2/	95	175	2/
Aug. 31	*	*	*	2	4	2/	5	8	2/

1/ Washington, Oregon, and California.
2/ Data not available at the time of publication.
* Not published.

Refrigerated Space by Type of Warehouse, October 1

Storage	Cooler Space 1983	Cooler Space 1985	Cooler Space 1987	Cooler Space 1989	Freezer Space 1983	Freezer Space 1985	Freezer Space 1987	Freezer Space 1989	Total Space 1/ 1983	Total Space 1/ 1985	Total Space 1/ 1987	Total Space 1/ 1989
	Million Cubic Feet											
	Washington											
General Storages												
Gross Space	3.9	4.5	4.8	8.6	93	96	103	116	97	100	108	124
Usable Space	2.7	3.2	3.7	6.5	73	78	84	96	76	81	88	102
Apple Storages												
Gross Space	256	268	296	344	-	-	-	-	256	268	296	344
Usable Space	204	214	237	275	-	-	-	-	204	214	237	275
Total Storages												
Gross Space	260	272	301	352	93	96	103	116	353	368	404	468
Usable Space	207	217	241	281	73	78	84	96	280	295	325	377

1/ Total may not add due to rounding.
- Not applicable.

Usable Cooler Capacity of Apple and Pear Storages, October 1

Storage	Washington 1983	Washington 1985	Washington 1987	Washington 1989	United States 1983	United States 1985	United States 1987	United States 1989
	1,000 Boxes				1,000 Boxes			
Apple and Pear Storages								
Controlled Atmosphere	55,086	59,384	67,641	82,360	78,506	84,733	94,622	109,823
Regular Storage	46,824	47,639	50,849	55,004	103,193	107,486	109,912	118,811
Total	**101,910**	**107,023**	**118,490**	**137,364**	**181,699**	**192,219**	**204,534**	**228,634**

1989 Washington Grape Production

Washington grape growers produced the second largest crop of record in 1989 at 229,000 tons. Production at this level is 26 percent above last year, but 8 percent below the 1987 record output of 249,500 tons. Concord growers received a record price for their grapes - $269.00 per ton on a crop of 186,000 tons, which is 37 percent more than last year and the third largest Concord production. Wine growers produced 43,000 tons during 1989, second largest ouput of record and received $443.00 per ton, $79.00 more than last year's price. All grapes added a record of $69.2 million to the State's agricultural economy, 55 percent more than last year's value.

White Riesling was still the number one wine variety utilized during 1989 at 31 percent of the total wine grapes. Generally, white variety prices have steadily declined since 1985 but did reflect an average of $67 per ton increase for the 1989 white varieties. Chardonnay producers received a record price of $919 per ton in 1989 while production has remained stable during the past three years at near 7,500 tons. The red variety price for 1989 at $668 per ton was $103 per ton higher than 1988 but has ranged in the $550 to $650 per ton during the past five years.

The average price of Washington wine grapes was the second highest in the Nation at $443 per ton for the 1989 crop. The top price for wine grapes has gone South to Oregon, as they have been added to the National Grape Program. Oregon producer's received $740 per ton on 7,450 tons utilized as wine during 1989. Washington is still the number two producer of premium wine grapes in the United States.

Washington Wine Grape by Variety

Variety by Color	Quantity Utilized					Average Price				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
	Tons					Dollars/Ton				
White Varieties										
White Riesling	6,400	10,100	12,300	15,200	13,350	495	460	350	181	202
Chardonnay	2,050	3,960	7,500	7,300	7,550	768	590	542	696	919
Chenin Blanc	1,710	3,060	3,970	4,850	4,200	631	530	370	207	195
Sauvignon Blanc	870	1,550	2,460	3,220	3,400	784	666	531	371	396
Semillon	1,070	1,980	2,820	3,250	2,750	640	594	464	245	213
Gewurztraminer	1,040	2,020	2,300	2,200	1,900	371	431	348	218	182
Muscat Canelli	90	310	820	750	450	778	625	499	401	291
Others	480	550	630	240	350	477	328	336	321	347
Total	**13,710**	**23,530**	**32,800**	**37,010**	**33,950**	**574**	**512**	**423**	**316**	**383**
Red Varieties										
Cabernet Sauvignon	1,390	2,530	2,470	3,520	3,950	651	670	600	638	742
Merlot	800	1,070	2,150	3,060	2,700	616	645	586	613	713
Pinot Noir	330	350	650	730	900	656	691	597	631	547
Lemberger	*	*	*	300	600	*	*	*	416	505
Others 1/	870	1,020	2,430	1,380	900	364	375	424	271	440
Total	**3,390**	**4,970**	**7,700**	**8,990**	**9,050**	**657**	**606**	**540**	**565**	**668**
State Total	**17,100**	**28,500**	**40,500**	**46,000**	**43,000**	**573**	**529**	**445**	**364**	**443**

* Included in other.
1/ Includes Pink Varieties

Grapes: Production, Value, and Disposition 1/

Year	Production		Average Price Per Ton 1/	Value of Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
				Concord Grapes 2/				
1980	140,200	140,200	168	23,512	400	269	139,800	167
1981	150,500	150,500	170	25,572	500	289	150,000	170
1982	150,200	155,900	147	22,849	700	500	155,200	145
1983	205,700	204,400	117	23,815	700	395	203,700	115
1984	150,700	150,700	85	12,754	500	377	150,200	84
1985	99,000	99,000	110	10,844	300	484	98,700	108
1986	127,500	127,500	173	22,043	200	200	127,300	173
1987	205,500	205,500	182	37,333	400	240	205,100	182
1988	136,000	136,000	205	27,857	300	280	135,700	205
1989	186,000	186,000	269	50,109	200	300	185,800	269
				Wine Grapes				
1980	4,900	4,900	480	2,352	-	-	4,900	480
1981	8,500	8,500	533	4,350	-	-	8,500	533
1982	13,000	13,000	650	8,450	-	-	13,000	650
1983	21,300	21,300	490	10,437	-	-	21,300	490
1984	17,800	17,800	455	8,099	-	-	17,800	455
1985	17,100	17,100	573	9,798	-	-	17,100	573
1986	28,500	28,500	529	15,077	-	-	28,500	529
1987	44,000	40,500	445	18,023	-	-	40,500	445
1988	46,000	46,000	364	16,744	-	-	46,000	364
1989	43,000	43,000	443	19,049	-	-	43,000	443
				All Grapes				
1980	145,100	145,100	178	25,865	400	269	144,700	178
1981	159,000	159,000	189	30,102	500	289	158,500	189
1982	168,900	168,900	185	31,299	700	500	168,200	184
1983	227,000	225,700	152	34,252	700	395	225,000	151
1984	168,500	168,500	124	20,853	500	377	168,000	123
1985	116,100	116,100	178	20,642	300	484	115,800	177
1986	156,000	156,000	238	37,120	200	200	155,800	238
1987	249,500	246,000	225	55,356	400	240	245,600	225
1988	182,000	182,000	245	44,601	300	280	181,700	245
1989	229,000	229,000	302	69,158	200	300	228,800	302

1/ Prices based at packinghouse door and processing plant door.

2/ Includes minor quantities of American hybrids used primarily for juice. Processing segment is juice utilization.

APRICOTS

Washington apricot production in 1989 was sharply reduced to 1,600 tons because of winter damage caused by the severe February cold temperatures. However, the limited supply of apricots resulted in a record price of $1,400 per ton to Washington's apricot producers. Bearing acreage increased from a low of 500 acres during the 1974-79 period to 1,200 acres during the 1988-89 period. The record for bearing acreage is 4,600 from 1947-49, which produced nearly thirty thousand tons.

Production, Value, and Dispostion

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1980	2,500	2,500	386.00	965
1981	1,300	1,300	593.00	771
1982	3,000	2,900	527.00	1,529
1983	2,900	2,900	604.00	1,751
1984	3,400	3,400	490.00	1,665
1985	2,400	2,400	628.00	1,508
1986	4,300	4,300	772.00	3,319
1987	3,900	3,900	709.00	2,765
1988	6,100	6,100	682.00	4,162
1989	1,600	1,600	1,400.00	2,236

1/ Prices based at packinghouse door and processing plant door.

PEACHES

Washington peach producers received a record price of $510 per ton for the 1989 crop. Production was set at 22,000 tons, which resulted in a record $11.2 million added to the agricultural economy. During the past ten years, bearing acreage has remained steady between 2,300 to 2,700 acres but production has fluctuated between 10,000 to 25,000 tons. Washington was the seventh largest producer of peaches in 1989, but only accounted for 1.9 percent of the National production.

Production, Value, and Dispostion

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1980	15,500	15,500	358.00	5,549
1981	10,000	10,000	472.00	4,719
1982	13,500	13,500	448.00	6,059
1983	14,500	14,500	386.00	5,602
1984	19,000	19,000	486.00	9,239
1985	15,500	15,500	476.00	7,365
1986	20,000	20,000	456.00	9,105
1987	21,500	21,500	330.00	7,076
1988	25,000	25,000	386.00	9,660
1989	22,000	22,000	510.00	11,212

1/ Prices based at packinghouse door and processing plant door.

SWEET CHERRY

Utilized production from the 1989 crop was a record 84,000 tons, but the 1983 total production was higher at 89,000 tons; however, only 80,900 tons from the 1983 crop were utilized in the fresh market and processing segments. The difference between total and utilized production was in the amount not harvested because of rain damage during the 1983 season. Since 1985, bearing acreage has shown a gradual increase to the current level of 13,300 acres for 1989.

Washington was the number one producer of sweet cherries with 43 percent of the National production, while Washington and Oregon accounted for 70 percent of the output.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1980	52,000	48,300	624.00	30,139	37,200	715.00	11,100	319.00
1981	46,400	44,400	934.00	41,479	31,800	1,134.00	12,600	430.00
1982	66,000	50,800	746.00	37,888	36,100	885.00	14,700	404.00
1983	89,000	80,900	689.00	55,726	63,500	774.00	17,400	378.00
1984	68,000	55,800	729.00	40,654	42,500	868.00	13,300	283.00
1985	37,900	35,300	1,030.00	36,527	20,200	1,430.00	15,100	506.00
1986	62,500	62,500	951.00	59,437	44,100	1,140.00	18,400	498.00
1987	74,000	74,000	923.00	68,332	49,500	1,130.00	24,500	506.00
1988	62,000	62,000	983.00	60,918	39,600	1,320.00	22,400	386.00
1989	84,000	84,000	802.00	67,390	61,300	949.00	22,700	406.00

1/ Prices based at packinghouse door and processing plant door.

Processed Cherry Utilization

Year	Canned		Brined		Other		Total Quantity
	Quantity	Price/Ton	Quantity	Price/Ton	Quantity	Price/Ton	
	Tons	Dollars	Tons	Dollars	Tons	Dollars	Tons
1980	2,200	499.00	5,300	318.00	3,600	212.00	11,100
1981	1,700	645.00	7,200	418.00	3,700	353.00	12,600
1982	2,500	703.00	7,100	361.00	5,100	316.00	14,700
1983	2,700	570.00	7,100	407.00	7,600	282.00	17,400
1984	1,800	527.00	5,600	245.00	5,900	245.00	13,300
1985	3,000	714.00	7,700	534.00	4,400	315.00	15,100
1986	2,500	575.00	12,000	471.00	3,900	531.00	18,400
1987	3,800	667.00	12,500	531.00	8,200	394.00	24,500
1988	3,900	644.00	11,900	391.00	6,600	226.00	22,400
1989	6,100	611.00	8,900	450.00	7,700	193.00	22,700

BARTLETT PEARS

Washington's Bartlett pears added a record $40.4 million to the agricultural economy during 1989. Growers harvested 157,000 tons, the fourth largest output of record, and 7 percent more than 1988. The state's Bartlett pear growers received top dollars for their pears, $258 per ton during 1989.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1980	143,000	143,000	185.00	26,459	32,900	242.00	110,100	169.00
1981	144,500	144,500	147.00	21,303	42,400	199.00	102,100	126.00
1982	141,300	141,300	154.00	21,736	44,600	199.00	96,700	133.00
1983	140,800	140,800	180.00	25,325	56,400	253.00	84,400	131.00
1984	101,000	101,000	218.00	21,996	24,500	342.00	76,500	178.00
1985	111,000	111,000	248.00	27,484	33,300	389.00	77,700	187.00
1986	126,000	126,000	225.00	28,352	39,500	363.00	86,500	162.00
1987	171,000	171,000	189.00	32,322	56,000	187.00	115,000	190.00
1988	147,000	147,000	244.00	35,868	42,000	394.00	105,000	184.00
1989	157,000	157,000	258.00	40,430	41,000	358.00	116,000	222.00

1/ Prices based at packinghouse door and processing plant door.

OTHER PEARS

Producers of other pears in Washington set a record output of 192,000 tons during 1989, harvested from 11,600 acres. Acreage has gradually increased since the 1960's. Orchardists received $327 per ton for the 1989 crop, $38 below the record price from the 1985 production. A record $62.7 million was added to the agricultural economy from the 1989 winter pears.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production
	Total	Utilized		
	Tons		Dollars	1,000 Dol.
1980	113,000	113,000	249.00	28,112
1981	130,800	130,800	260.00	34,049
1982	123,500	123,500	245.00	30,269
1983	138,000	138,000	171.00	23,648
1984	103,000	103,000	325.00	33,432
1985	114,000	114,000	365.00	41,642
1986	140,000	140,000	339.00	47,480
1987	165,000	165,000	215.00	35,395
1988	163,000	163,000	335.00	54,618
1989	192,000	192,000	327.00	62,688

1/ Prices based at packinghouse door and processing plant door.

PRUNES

Washington prune producers harvested 13,500 tons from 1,600 acres during 1989. During the past decade, bearing acreage has ranged from 1,400 to 1,700 acres while production was between 9,100 to 23,100 tons. Orchardists received $162 per ton for the 1989 crop, and the average price has ranged from $116 to $366 per ton during the past 10 years.

Production, Value, and Disposition

Year	Production		Average Price Per Ton	Value of 1/ Utilized Production	Fresh Market		Processing	
	Total	Utilized			Quantity	Price/Ton	Quantity	Price/Ton
	Tons		Dollars	1,000 Dol.	Tons	Dollars	Tons	Dollars
1980	23,100	23,100	149.00	3,436	18,000	170.00	5,100	73.80
1981	14,600	14,600	116.00	1,688	11,200	133.00	3,400	58.20
1982	11,500	11,500	300.00	3,454	10,050	340.00	1,450	25.30
1983	14,700	14,700	161.00	2,374	12,100	189.00	2,600	33.30
1984	18,000	18,000	151.00	2,715	11,400	189.00	6,600	84.90
1985	10,200	10,200	220.00	2,240	7,200	284.00	3,000	64.90
1986	9,100	9,100	366.00	3,329	7,400	437.00	1,700	55.70
1987	12,300	12,300	134.00	1,650	7,600	164.00	4,700	86.00
1988	13,500	13,500	187.00	2,521	10,500	228.00	3,000	42.20
1989	13,500	13,500	162.00	2,187	9,700	198.00	3,800	70.10

1/ Prices based at packinghouse door and processing plant door.

FILBERTS

In 1989, filbert producers harvested 200 tons of filberts with an average price of $1,030 per ton. After the 1962 Columbus Day storm, filbert acreage declined to the current level. Clark County has about half of the state's filbert trees, while the remainder are located between Seattle and the Canadian border.

Production, Value, and Disposition

Year	Utilized Production	Average Price Per Ton	Value of Utilized Production	Production		Meat Production Of Nuts Sold Shelled
				Sold In Shell	Sold Shelled	
	Tons	Dollars	1,000 Dol.	Tons		
1980	300	1,181.00	354	199	101	84
1981	300	770.00	231	200	100	80
1982	400	677.00	271	230	170	70
1983	200	720.00	144	150	50	20
1984	200	875.00	175	120	80	30
1985	300	957.00	287	250	50	20
1986	200	895.00	179	150	50	20
1987	300	1,160.00	348	150	150	60
1988	200	891.00	178	100	100	40
1989	200	1,030.00	206	50	150	60

VEGETABLES

Washington vegetable crop producers set a new record high for value of production during 1989 by going over the $200 million mark. The 1989 value of production, at $219.6 million, was 15 percent more than the previous high of $191.2 million from the 1988 vegetable crops. Also, total production was a new high at 22.2 million cwt. but harvested acreage was still below the level established in 1968 at 191,310 acres.

Asparagus, the number 1 vegetable crop in Washington, set new records for production and price which added a record $55 million to the agricultural economy. Harvested acres, at 32,000 acres for both 1988 and 1989, was the record high, but yields at 32 cwt. per acre was still much below the level set in 1945-46 of 42 cwt. Washington is the number 2 state with 41 percent of the national production.

Sweet corn for processing was the second most valuable vegetable crop and added $35.1 million to the value of production in Washington. Growers produced the largest crop of record at 9.41 million cwt. which surpassed the previous level of 9.39 million cwt. from the 1982 crop. Washington supplied 16 percent of the national output and ranks third behind Wisconsin and Minnesota. Fresh market sweet corn acreage declined to 2,500 acres and added $3.8 million to the economy. This was 31 percent below the record contributed from the 1988 crop of $5.5 million.

Green peas for processing posted a 16 percent gain over last year in harvested acres for the 1989 crop but this was still short of the record 90,100 acres harvested during 1968. Growers received a record price of $262.00 per ton which added $26 million to the value of production for Washington during 1989.

Storage onion acreage has steadily increased over the years and growers harvested a record 6,200 acres during 1989. Growers produced a new high of 2,790,000 cwt. and added $26.7 million in value of production. Non-storage onions acreage has remained stable the past few years as growers harvested 1,500 acres during 1989. However, they received a top price of $17.80 per cwt. for their non-storage onions.

Vegetable Crops: Acreage, Production and Value

Crop and Year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt. 1/	Value of Utilized Production	Fresh Market		Processing	
						Production	Average Price Per Cwt 1/	Production	Average Price Per Cwt. 1/
	Acres	Cwt.	1,000 Cwt.	Dollars	1,000 Dol.	1,000 Cwt.	Dollars	1,000 Cwt.	Dollars
Asparagus									
1985	29,000	28	812	52.30	42,443	242	68.80	570	45.25
1986	30,000	26	780	52.10	40,612	290	67.30	490	43.05
1987	31,000	26	806	49.90	40,257	237	63.30	569	44.40
1988	32,000	28	896	52.70	47,198	252	62.20	644	48.95
1989	32,000	32	1,024	53.80	55,074	324	73.30	700	44.75
Carrots									
1985	5,200	435	2,262	4.98	11,257	456	14.10	1,806	2.67
1986	5,800	415	2,407	5.10	12,270	481	17.10	1,926	2.10
1987	6,200	460	2,852	3.80	10,831	519	11.90	2,333	2.00
1988	5,600	520	2,912	5.95	17,412	678	16.80	2,234	2.70
1989	6,300	520	3,276	4.40	14,407	739	10.50	2,537	2.62
Cucumbers For Pickles									
1985	1,700	197.6	336.0	9.25	3,108	-	-	336.0	9.25
1986	1,700	180.0	306.0	8.00	2,448	-	-	306.0	8.00
1987	1,700	199.6	339.4	9.00	3,055	-	-	339.4	9.00
1988	1,400	204.4	286.2	9.35	2,676	-	-	286.2	9.35
1989	1,700	203.8	346.4	8.85	3,066	-	-	346.4	8.85
Green Peas, Proc.									
1985	61,500	32.0	1,968.0	12.00	23,616	-	-	1,968.0	12.00
1986	47,600	34.2	1,628.0	12.55	20,431	-	-	1,628.0	12.55
1987	41,500	41.2	1,709.8	12.70	21,714	-	-	1,709.8	12.70
1988	48,200	37.4	1,802.6	11.85	21,361	-	-	1,802.6	11.85
1989	55,700	35.6	1,983.0	13.10	25,977	-	-	1,983.0	13.10
Lettuce									
1985	1,100	190	209	13.00	2,717	209	13.00	-	-
1986	1,200	180	216	14.70	3,175	216	14.70	-	-
1987	1,200	200	240	14.90	3,576	240	14.90	-	-
1988	1,400	240	336	15.30	5,141	336	15.30	-	-
1989	1,400	290	406	20.00	8,120	406	20.00		

Vegetable Crops: Acreage, Production and Value, (Continued)

						Fresh Market		Processing	
Crop and year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt. 1/	Value of Utilized Production	Production	Average Price Per Cwt. 1/	Production	Average Price Per Cwt. 1/
	Acres	Cwt.	1,000 Cwt.	Dollars	1,000 Dol.	1,000 Cwt.	Dollars	1,000 Cwt.	Dollars
Onions-Non Stge.									
1985	1,300	300	390	17.40	6,786	390	17.40	-	-
1986	1,300	330	429	9.55	4,097	429	9.55	-	-
1987	1,400	380	532	12.90	6,863	532	12.90	-	-
1988	1,600	400	640	10.70	6,848	640	10.70	-	-
1989	1,500	350	525	17.80	9,345	525	17.80	-	-
Onions-Stge. 2/									
1985	4,300	410	1,763	4.97	6,754	1,763	4.97	-	-
1986	4,400	420	1,848	12.90	19,673	1,848	12.90	-	-
1987	5,000	460	2,300	10.60	20,479	2,300	10.60	-	-
1988	5,600	450	2,520	9.40	19,928	2,520	9.40	-	-
1989	6,200	450	2,790	11.20	26,656	2,790	11.20	-	-
Snap Beans-Proc.									
1985	1,500	62.0	93.0	8.35	777	-	-	93.0	8.35
1986	1,200	81.6	98.0	10.10	990	-	-	98.0	10.10
1987	1,100	90.2	99.2	9.90	982	-	-	99.2	9.90
1988	800	91.4	73.2	9.65	706	-	-	73.2	9.65
1989	1,100	87.0	95.8	9.20	881	-	-	95.8	9.20
Sweet Corn-Fresh									
1985	3,300	110	363	13.20	4,792	363	13.20	-	-
1986	3,200	120	384	11.10	4,262	384	11.10	-	-
1987	3,200	130	416	9.31	3,873	416	9.31	-	-
1988	3,200	130	416	13.30	5,533	416	13.30	-	-
1989	2,500	120	300	12.70	3,810	300	12.70	-	-
Sweet Corn-Proc.									
1985	38,900	168.0	6,535.2	3.43	22,448	-	-	6,535.2	3.43
1986	35,300	167.4	5,909.2	3.43	20,269	-	-	5,909.0	3.43
1987	44,600	180.4	8,045.8	3.36	26,994	-	-	8,045.8	3.36
1988	49,200	175.0	8,610.0	3.24	27,908	-	-	8,610.0	3.24
1989	51,200	183.8	9,410.6	3.73	35,054	-	-	9,410.6	3.73
Other-Fresh									
1985	9,300	-	1,437	-	28,178	1,437	-	-	-
1986	10,800	-	1,546	-	30,847	1,546	-	-	-
1987	9,200	-	1,536	-	29,885	1,536	-	-	-
1988	9,000	-	1,504	-	30,705	1,504	-	-	-
1989	8,700	-	1,480	-	31,525	1,480	-	-	-
Other-Proc.									
1985	3,600	-	334	-	3,100	-	-	334	-
1986	5,200	-	322	-	3,200	-	-	322	-
1987	5,800	-	557	-	2,555	-	-	557	-
1988	5,800	-	520	-	5,800	-	-	520	-
1989	5,300	-	524	-	5,700	-	-	524	-
State Total									
1985	160,700		16,502.2	-	155,976	4,860	-	11,642	-
1986	147,700		15,873.2	-	162,274	5,194	-	10,679	-
1987	151,900		19,433.2	-	171,064	5,780	-	13,653	-
1988	163,800		20,516.0	-	191,216	6,346	-	14,170	-
1989	173,600		22,160.8	-	219,615	6,564	-	15,597	-

1/ Prices based at F.O.B. (shipping point) for fresh market vegetables and at processing plant door for processing vegetables.

2/ Includes some quantities of storage crop onions harvested but not sold because of shrinkage and waste. (1985=404,000 cwt., 1986=323,000 cwt., 1987=368,000 cwt., 1988=400,000 cwt., 1989=410,000 cwt.)

- Not applicable

ASPARAGUS

Washington asparagus growers produced a record breaking crop for the third consecutive year. Acreage, production, price and value of production were all at record levels during 1989. Production, at 1,024,000 cwt., was 14 percent higher than 1988 and growers received a top price of $53.80 per cwt. during 1989. This added a record $55 million to the agricultural economy.

California and Washington are the top two producing states, respectively, as they accounted for 85 percent of the national supply during 1989.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1980	22,200	23	511	40.90
1981	23,700	25	593	49.40
1982 1/	28,400	24	682	48.60
1983 1/	29,300	23	684	51.40
1984	29,000	25	725	51.70
1985	29,000	28	812	52.30
1986	30,000	26	780	52.10
1987	31,000	26	806	49.90
1988	32,000	28	896	52.70
1989	32,000	32	1,024	53.80

1/ Estimates by Washington Asparagus Growers Association.

Asparagus by County

County	1988			1989		
	Acreage Harvested	Yield Per Acre	Production	Acreage Harvested	Yield Per Acre	Production
	Acres	Cwt.	Cwt.	Acres	Lbs.	Cwt.
Adams	500	24.0	12,000	1,000	28.0	28,000
Benton	1,000	30.0	30,000	800	30.0	24,000
Franklin	12,000	25.0	300,000	12,000	33.0	396,000
Grant	2,300	25.2	58,000	2,300	30.0	69,000
Walla Walla	4,000	29.8	119,000	3,800	30.0	114,000
Yakima	11,900	31.1	370,000	11,900	32.6	388,000
Other Co.	300	23.3	7,000	200	25.0	5,000
State Total	**32,000**	**28.0**	**896,000**	**32,000**	**32.0**	**1,024,000**

CARROTS

Harvested acreage and production at 6,300 acres and 3.3 thousand cwt., respectively, are record highs for Washington carrot producers. The 1989 yield also matched the high of 520 cwt. per acre produced during 1988. Value of production at $14.4 million is 17 percent less than last year's record of $17.4 million.

Washington is the number 1 producer of processing carrots with 26 percent of the national output from the 1989 crop. California is second with 25 percent. In terms of total production, both fresh market and processing, California is by far the leader with 58 percent of the national supply for the 1989 carrot crop.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	1,000 Cwt.	Dollars
1980	4,150	467	1,938	5.74
1981	4,400	400	1,760	5.56
1982	4,800	435	2,088	3.56
1983	4,000	400	1,600	5.54
1984	4,300	425	1,828	5.99
1985	5,200	435	2,262	4.98
1986	5,800	415	2,407	5.10
1987	6,200	460	2,852	3.80
1988	5,600	520	2,912	5.98
1989	6,300	520	3,276	4.40

Carrots by County

County	1988			1989		
	Acreage Harvested	Yield Per Acre	Production	Acreage Harvested	Yield Per Acre	Production
	Acres	Cwt.	Cwt.	Acres	Cwt.	Cwt.
Adams	100	500	50,000	100	450	45,000
Benton	300	470	141,000	200	450	90,000
Cowlitz	350	400	140,000	300	400	120,000
Franklin	1,600	490	784,000	2,000	550	1,100,000
Grant	1,200	680	816,000	1,600	610	976,000
Klickitat	200	480	96,000	300	500	150,000
Skagit	500	600	300,000	600	520	312,000
Thurston	300	400	120,000	300	420	126,000
Whatcom	800	500	400,000	600	450	270,000
Other Co.	250	260	65,000	300	290	87,000
State Total	**5,600**	**520**	**2,912,000**	**6,300**	**520**	**3,276,000**

SWEET CORN

Growers of processing sweet corn in Washington produced a record crop of 470,530 tons during 1989. The record production was harvested from 51,200 acres with an average yield of 9.19 tons. Average price per ton, at $74.50, nearly matched the record price of $75.40 per ton from the 1974 crop.

Fresh market sweet corn growers harvested 2,500 acres during 1989, 22 percent less than 1988. Yields averaged 120 cwt. per acre for a total output of 300,000 cwt., 28 percent below 1988's production.

This is the first year that separate county estimates for fresh market and processing sweet corn are published.

Acreage, Production, and Price

Year	Fresh Market				Processing			
	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt	Acreage Harvested	Yield Per Acre	Production	Average Price Per Ton
	Acres	Cwt.	Cwt.	Dollars	Acres	Tons	Tons	Dollars
1980	2,800	80	224,000	10.20	36,700	8.31	304,980	60.30
1981	2,800	75	210,000	11.50	41,800	7.96	332,730	64.60
1982	2,900	80	323,000	11.70	51,700	9.08	469,440	70.60
1983	2,600	85	221,000	13.50	38,300	9.12	349,300	60.70
1984	2,800	105	294,000	15.40	32,900	7.47	245,760	68.00
1985	3,300	110	363,000	13.20	38,900	8.40	326,760	68.70
1986	3,200	120	384,000	11.10	35,300	8.37	295,460	68.60
1987	3,200	130	416,000	9.31	44,600	9.02	402,290	67.10
1988	3,200	130	416,000	13.30	49,200	8.75	430,500	64.80
1989	2,500	120	300,000	12.70	51,200	9.19	470,530	74.50

Sweet Corn by County, 1989

County	Fresh Market			Processing		
	Acreage Harvested	Yield Per Acre	Production	Acreage Harvested	Yield Per Acre	Production
	Acres	Cwt.	Cwt.	Acres	Tons	Tons
Benton	-	-	-	4,100	10.4	42,500
Clark	-	-	-	150	8.3	1,250
Cowlitz	-	-	-	1,200	6.5	7,800
Franklin	-	-	-	5,100	9.6	49,000
Grant	-	-	-	27,000	9.4	254,000
Grays Harbor	-	-	-	100	6.8	680
Kittitas	-	-	-	500	9.2	4,600
King	200	100	20,000	-	-	-
Klickitat	-	-	-	500	9.5	4,750
Lewis	-	-	-	2,000	8.9	17,900
Pierce	300	100	30,000	-	-	-
Skagit	-	-	-	600	7.0	4,200
Snohomish	300	120	36,000	-	-	-
Spokane	150	120	18,000	-	-	-
Thurston	50	100	5,000	-	-	-
Walla Walla	-	-	-	1,300	7.7	10,050
Whatcom	-	-	-	650	7.0	4,550
Yakima	1,300	133	173,000	8,000	8.7	69,250
Other	200	90	18,000	-	-	-
State Total	**2,500**	**120**	**300,000**	**51,200**	**9.2**	**470,530**

GREEN PEAS - PROCESSING

Washington's position as the number 1 producer of processing green peas was short-lived as Wisconsin and Minnesota regained the two top positions during 1989. These two states rebounded from the 1988 drought-stricken output which allowed Washington to move up to the top slot. These three states are the leading producers of green peas and accounted for 68 percent of the Nation's supply during 1989.

Production in Washington was 99,150 tons from 55,700 acres during 1989. Growers received a record price of $262.00 per ton which added $26 million to the value of production for the state.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Ton
	Acres	Tons	Tons	Dollars
1980	57,800	1.65	95,370	193.00
1981	59,600	1.48	88,210	203.00
1982	67,700	1.60	108,320	235.00
1983	65,600	1.49	97,740	205.00
1984	64,400	1.70	109,480	246.00
1985	61,500	1.60	98,400	240.00
1986	47,600	1.71	81,400	251.00
1987	41,500	2.06	85,490	254.00
1988	48,200	1.87	90,130	237.00
1989	55,700	1.78	99,150	262.00

Green Peas by County

County	1988			1989		
	Acreage Harvested	Yield Per Acre	Production	Acreage Harvested	Yield Per Acre	Production
	Acres	Tons	Tons	Acres	Tons	Tons
Columbia	1,000	.90	900	1,300	.88	1,150
Cowlitz	300	3.10	930	700	2.50	1,750
Grant	2,100	2.98	6,250	3,300	2.42	8,000
Grays Harbor	1,800	2.08	3,750	2,100	1.79	3,750
Island	-	-	-	400	1.88	750
Lewis	3,900	1.78	7,000	4,700	1.86	8,750
Skagit	14,800	2.45	36,250	16,300	2.30	37,500
Snohomish	3,300	2.70	8,900	3,400	2.13	7,250
Thurston	-	-	-	200	1.75	350
Walla Walla	12,100	1.09	13,150	13,300	1.06	14,150
Whatcom	3,500	2.29	8,000	5,000	2.25	11,250
Whitman	5,400	.93	5,000	5,000	.90	4,500
State Total	**48,200**	**1.87**	**90,130**	**55,700**	**1.78**	**99,150**

LETTUCE

Lettuce growers in Washington had an excellent year during 1989 as new highs were set for yield, production, price and value of production. Harvested acres were 1,400 acres, the same as last year, but yields jumped to 290 cwt., 50 cwt. more than the 1988 level. Growers received a top price of $20.00 per cwt. and the total value of production added a record $8.1 million to the agricultural economy.

Washington is a small producer of lettuce. California and Arizona accounted for 93 percent of the 1989 national production.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt.
	Acres	Cwt.	Cwt.	Dollars
1980	1,200	200	240,000	12.80
1981	1,200	195	234,000	13.30
1982	1,200	180	216,000	11.10
1983	1,000	220	220,000	14.00
1984	1,100	210	231,000	14.60
1985	1,100	190	209,000	13.00
1986	1,200	180	216,000	14.70
1987	1,200	200	240,000	14.90
1988	1,400	240	336,000	15.30
1989	1,400	290	406,000	20.00

Lettuce by County

County	1988			1989		
	Acreage Harvested	Yield Per Acre	Production	Acreage Harvested	Yield Per Acre	Production
	Acres	Cwt.	Cwt.	Acres	Lbs.	Cwt.
Clark	150	200	30,000	150	300	45,000
King	250	240	60,000	250	260	65,000
Pierce	850	259	220,000	900	307	276,000
Spokane	50	200	10,000	50	200	10,000
Other Co.	100	160	16,000	50	200	10,000
State Total	**1,400**	**240**	**336,000**	**1,400**	**290**	**406,000**

DRY ONIONS

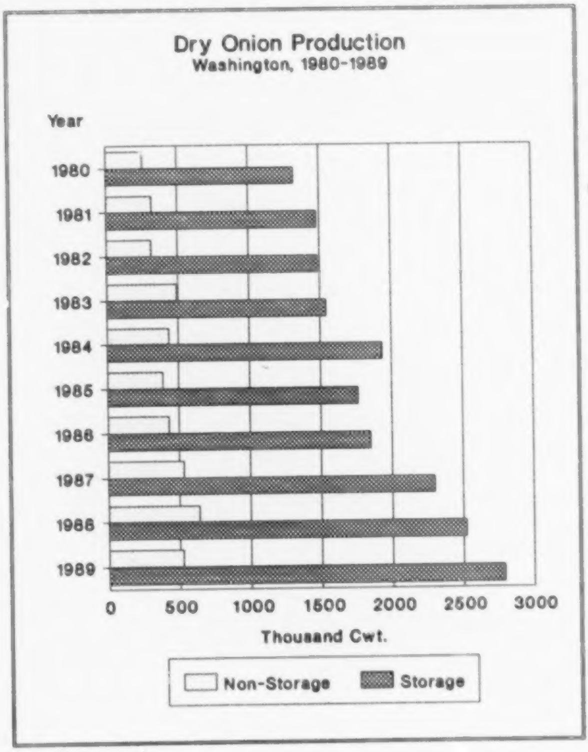
Storage onion production, at 2,790,000 cwt. during 1989, was at a record high for the third consecutive year. Growers harvested a record 6,200 acres but only obtained 450 cwt. per acre, the same yield as the 1988 crop.

Non-storage onion growers received a record price of $17.80 per cwt. for the 1989 output. Both harvested acres and yields were less than 1988 which accounted for the production being 18% less than 1988.

Beginning with the 1989 crop, separate non-storage and storage onion county estimates are being published. Virtually all of the non-storage onions are direct seeded in the fall and are not suitable for long term storage.

Acreage, Production, and Price

Year	Non-Storage				Storage			
	Acreage Harvested	Yield Per Acre	Production	Average Price Per Cwt	Acreage Harvested	Yield Per Acre	Production	Average Price Per Ton
	Acres	Cwt.	Cwt.	Dollars	Acres	Cwt.	Cwt.	Dollars
1980	780	330	257,000	8.86	3,300	400	1,320,000	11.70
1981	800	400	320,000	10.50	3,700	400	1,480,000	14.40
1982	850	370	315,000	8.28	3,900	380	1,482,000	5.26
1983	1,200	410	492,000	8.28	3,500	440	1,540,000	14.10
1984	1,200	360	432,000	13.50	4,300	450	1,935,000	9.10
1985	1,300	300	390,000	17.40	4,300	410	1,763,000	4.97
1986	1,300	330	429,000	9.55	4,400	420	1,848,000	12.90
1987	1,400	380	532,000	12.90	5,000	460	2,300,000	10.60
1988	1,600	400	640,000	10.70	5,600	450	2,520,000	9.40
1989	1,500	350	525,000	17.80	6,200	450	2,790,000	11.20

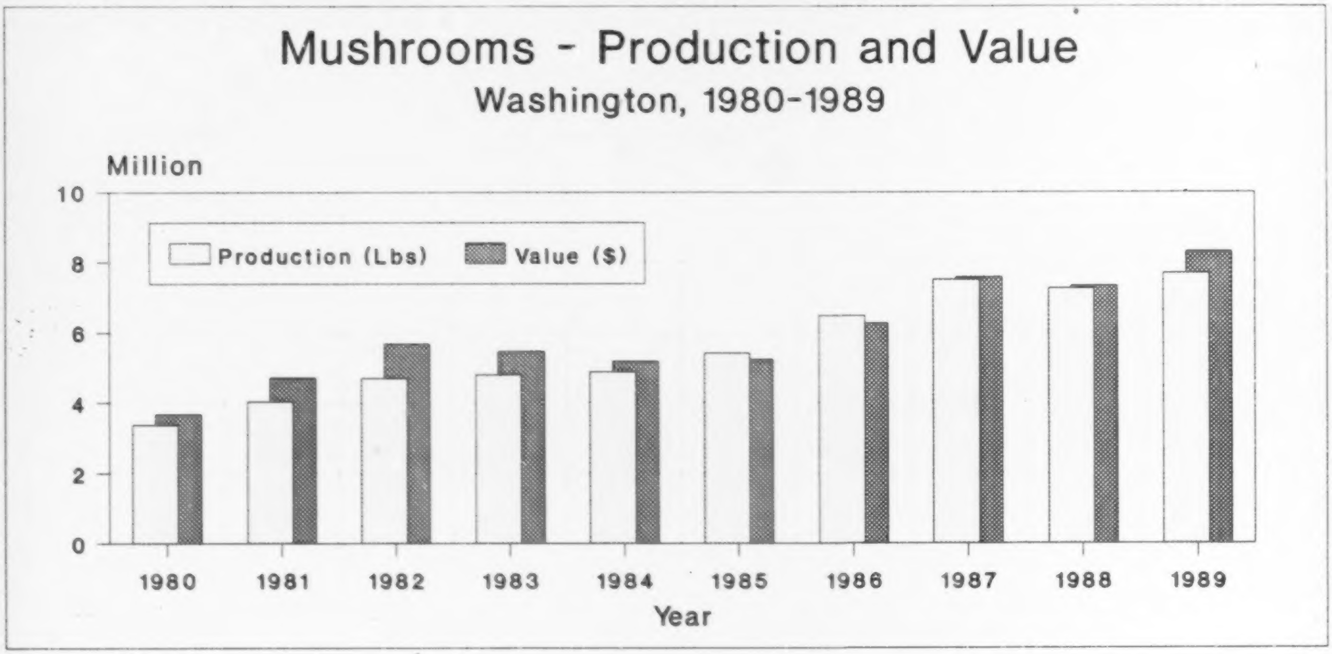


Dry Onions by County, 1989

Type/ County	Acreage Harvested	Yield Per Acre	Production
	Acres	Cwt.	Cwt.
Storage Onions			
Adams	1,100	440	484,000
Benton	400	430	172,000
Franklin	1,000	455	455,000
Grant	2,900	462	1,340,000
Yakima	600	430	258,000
Other	200	405	81,000
State Total	**6,200**	**450**	**2,790,000**
Non-Storage Onions			
Walla Walla	1,300	355	462,000
Other	200	315	63,000
State Total	**1,500**	**350**	**525,000**

MUSHROOMS

Mushroom production in Washington for 1989 was the largest on record at 7.696 million pounds. A major producer in the State went out of business in 1989 which caused a decline in total fillings to 1.64 million square feet. Production increased dramatically on this lower filling amount to 7.696 million pounds. The average price in Washington increased to $1.08 per pound. The total value of production increased to $8.3 million.



Acreage, Production, Price, and Value

Year	Total Fillings	Production	Price Per Pound	Value Of Production
	1,000 Square Feet	1,000 Lbs.	Dollars	$1,000
1979-80	1,740	3,380	1.090	3,671
1980-81	1,446	4,038	1.170	4,713
1981-82	1,108	4,705	1.210	5,688
1982-83	1,195	4,799	1.140	5,474
1983-84	1,196	4,891	1.060	5,186
1984-85	1,640	5,417	.965	5,229
1985-86	1,844	6,485	.966	6,263
1986-87	1,916	7,501	1.010	7,576
1987-88	1,855	7,254	1.010	7,327
1988-89	1,643	7,696	1.080	8,306

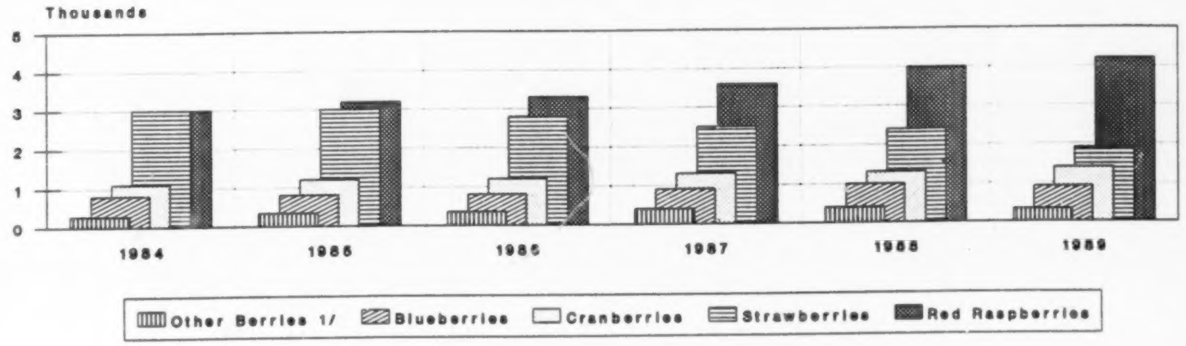
BERRIES

The value of Washington berry production reached a record high $33.9 million in 1989, $1.6 million more than the previous record crop of 1988. Berry yields were up relative to a year ago except for cultivated blackberries, which were unchanged, and strawberries, which suffered considerably from the extremely cold temperatures early in the year.

Total harvested berry acreage and production were both off with respect to 1988, and season average prices were mixed, but increases in production and the season average price for both red raspberries and cranberries were strong enough to make 1989 a record year for the total value of Washington berry production.

Cranberry and strawberry estimates are part of the National Statistical Program; estimates for all other berries are State sponsored. Direct comparisons can be made with Oregon who also has a State Program to estimate berries.

Berry Harvested Acreage
Washington, 1984-1989



CULTIVATED BLACKBERRIES

Cultivated blackberry acreage in Washington, which has been at 150 acres for the past four years, dropped slightly in 1989, to 130 harvested acres, a record low for the State. Yields averaged 5,500 pounds per acre, virtually unchanged from 1988 and 1987, when yields average 5,500 pounds per acre and 5,400 pounds per acre, respectively.

Washington blackberry growers harvested 715 thousand pounds of cultivated blackberries in 1989, 110 thousand pounds less than the 1988 crop. With an average price of 46 cents per pound, the value of the 1989 cultivated blackberry crop totaled $329 thousand. Forty-two percent of the crop went to fresh market, at 75 cents per pound. The remaining 58 percent went to processing plants, at 25 cents per pound.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1980	240	3,500	840	15.8
1981	220	3,750	825	22.5
1982	160	3,800	608	27.8
1983	160	4,250	680	30.0
1984	160	5,000	800	44.5
1985	150	4,700	705	53.2
1986	150	3,800	570	51.1
1987	150	5,400	810	40.1
1988	150	5,500	825	48.7
1989	130	5,500	715	46.0

BERRIES

Berries: Acreage, Production, Price, and Value

Crop and Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.	Value of Utilized Production	Fresh Market		Processing	
						Production	Average Price Per Lb.	Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents	1,000 Dol.	1,000 Lbs.	Cents	1,000 Lbs.	Cents
Cultivated Blackberries									
1985	150	4,700	705	53.2	375	315	62.0	390	46.0
1986	150	3,800	570	51.1	292	170	75.0	400	41.0
1987	150	5,400	810	40.1	325	260	62.0	550	29.8
1988	150	5,500	825	48.7	402	325	74.5	500	32.0
1989	130	5,500	715	46.0	329	300	75.0	415	25.0
Blueberries									
1985	800	6,875	5,500	62.9	3,462	2,100	79.7	3,400	52.6
1986	800	3,625	2,900	69.7	2,022	1,100	81.5	1,800	62.5
1987	900	7,000	6,300	68.4	4,312	2,400	81.5	3,900	60.4
1988	1,000	6,500	6,500	75.9	4,932	1,800	83.4	4,700	73.0
1989	900	7,000	6,300	68.7	4,326	2,100	82.0	4,200	62.0
Cranberries 1/									
1985	1,200	12,330	14,800	46.8	6,926	4,070	-	10,630	-
1986	1,200	8,330	10,000	45.3	4,530	4,620	-	5,340	-
1987	1,300	10,000	13,000	45.0	5,850	1,680	-	11,150	-
1988	1,300	10,380	13,500	44.9	6,062	1,920	-	11,480	-
1989	1,400	11,140	15,600	40.7	6,349	2,250	-	13,250	-
Black Raspberries									
1985	100	950	95	138.9	132	25	135.0	70	140.0
1986	100	700	70	165.7	116	14	170.0	56	165.0
1987	100	1,100	110	50.4	55	23	55.0	87	49.2
1988	80	1,300	104	51.9	54	20	100.0	84	41.0
1989 2/	-	-	-	-	-	-	-	-	-
Red Raspberries									
1985	3,200	5,250	16,800	56.1	9,433	1,000	75.9	15,800	54.9
1986	3,300	4,200	13,860	75.8	10,509	1,040	86.0	12,820	75.0
1987	3,600	6,400	23,040	52.6	12,109	1,300	93.6	21,740	50.1
1988	4,000	6,300	25,200	53.5	13,482	1,200	83.5	24,000	52.0
1989	4,200	6,900	28,980	56.1	16,269	1,100	85.0	27,880	55.0
Strawberries									
1985	3,000	7,100	21,300	32.7	6,971	2,300	47.0	19,000	31.0
1986	2,800	5,000	14,000	46.4	6,500	2,000	55.0	12,000	45.0
1987 3/	2,500	9,600	24,000	34.1	8,180	2,500	52.0	21,500	32.0
1988	2,400	9,200	22,100	30.9	6,838	2,500	54.0	19,600	28.0
1989	1,900	6,000	11,400	47.7	5,440	4,000	62.0	7,400	40.0
Other Berries									
1985	90	-	180	-	70	-	-	-	-
1986	110	-	180	-	108	-	-	-	-
1987	160	-	770	-	275	-	-	-	-
1988	180	-	1,050	-	490	-	-	-	-
1989	200	-	1,260	-	517	-	-	-	-
State Total									
1985	8,540	-	59,380	-	27,369	-	-	-	-
1986	8,460	-	41,580	-	24,077	-	-	-	-
1987	8,710	-	68,030	-	31,106	-	-	-	-
1988	9,110	-	69,279	-	32,260	-	-	-	-
1989	8,730	-	64,255	-	33,230	-	-	-	-

1/ Utilized Production includes berries lost because of dehydration and berry breakdown after delivery: 1985=100,000 lbs.; 1986=40,000 lbs.; 1987=170,000 lbs.; 1988=100,000 lbs.; 1989=100,000 lbs.

2/ Estimates discontinued in 1989. Included with "Other Berries".

3/ Excludes 50,000 cwt. not harvested because of market conditions.

- Not Available.

STRAWBERRIES

The 1989 season brought another year of declining strawberry acreage for Washington. Only 1,900 acres were harvested in 1989, the lowest acreage on record. Strawberry growers were also hit hard by frigid temperatures early in the year, and labor difficulties during harvest. As a result, the average yield was only 6,000 pounds per acre, down considerably from the previous year's average yield of 9,200 pounds per acre

Strawberry production continued to decline and totaled 11.4 million pounds, about half of the previous year. The processors utilized about 65 percent of the crop, down considerably in both the percentage and quantity from previous years. The quantity of strawberries sold for fresh market actually increased from last year as the U-Pick and Farmers' Markets were very popular in 1989.

The average price received by growers was quite strong at 47.7 cents per pound. The value of the 1989 crop was $5.4 million, $1.4 million less than the 1988 crop.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1980	2,900	6,000	17,400	34.7
1981	2,800	6,000	16,800	38.3
1982	3,000	6,200	18,600	43.4
1983	3,100	6,200	19,200	40.5
1984	3,000	7,000	21,000	25.8
1985	3,000	7,100	21,300	32.7
1986	2,800	5,000	14,000	46.4
1987	2,500	9,600	24,000	34.1
1988	2,400	9,200	22,100	30.9
1989	1,900	6,000	11,400	47.7

Strawberries by County

County	1988			1989		
	Acreage Harvested	Yield	Production	Acreage Harvested	Yield	Production
	Acres	Lbs.	1,000 Lbs.	Acres	Lbs.	1,000 Lbs.
Clallam	40	6,550	262	30	7,000	210
Clark	70	9,100	637	60	5,000	300
King	180	9,000	1,620	120	5,500	660
Kitsap	30	5,500	165	30	6,000	180
Lewis	50	5,600	280	50	4,400	220
Pierce	280	7,000	1,960	220	4,500	990
Skagit	700	10,700	7,490	600	8,000	4,800
Snohomish	200	8,600	1,720	160	7,000	1,120
Thurston	50	10,000	500	60	8,000	480
Whatcom	600	10,100	6,060	400	4,000	1,600
Spokane	50	6,000	300	60	4,000	240
Franklin	100	8,000	800	60	5,000	300
Other Counties	50	6,120	306	50	6,000	300
State Total	**2,400**	**9,200**	**22,100**	**1,900**	**6,000**	**11,400**

RED RASPBERRIES

Washington's red raspberry growers had an excellent year in 1989. Low temperatures and high winds caused some concern early in the year, but as the season progressed, crop development was fairly normal. By harvest in late June, it was clear that red raspberries had made it through the winter in excellent condition.

Production of red raspberries was a record high 29.0 million pounds, 3.8 million pounds more than the previous record crop of 1988. The value of the 1989 crop, at $16.3 million, was also a new record high for Washington. Harvested acreage totaled 4,200, 200 acres more than last year, and only 300 acres less than the record high of 1949. The average yield for the State was 6,900 pounds per acre, the highest level since the record was set at 7,100 pounds per acre in 1963. Fresh market production, at 1.1 million pounds, was at a level fairly consistant with the previous five years, whereas processing production and value were both record highs, at 27.9 million pounds and $15.3 million, respectively.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1980	2,800	4,500	12,600	37.3
1981	3,000	4,750	14,250	52.0
1982	3,100	5,700	17,670	67.3
1983	3,000	5,800	17,400	43.0
1984	3,000	5,450	16,350	49.2
1985	3,200	5,250	16,800	56.1
1986	3,300	4,200	13,860	75.8
1987	3,600	6,400	23,040	52.6
1988	4,000	6,300	25,200	53.5
1989	4,200	6,900	28,980	56.1

Red Raspberries by County

County	1988			1989		
	Acreage Harvested	Yield	Production	Acreage Harvested	Yield	Production
	Acres	Lbs.	1,000 Lbs.	Acres	Lbs.	1,000 Lbs.
Clallam	80	5,500	440	80	5,250	420
Clark	400	6,100	2,440	420	6,150	2,583
Cowlitz	100	5,000	500	100	6,000	600
King	70	5,000	350	50	5,500	275
Kitsap	40	5,100	204	40	5,000	200
Lewis	40	4,400	176	40	4,000	160
Pierce	400	6,030	2,412	460	6,900	3,174
Skagit	500	6,590	3,295	510	6,900	3,519
Snohomish	180	5,450	981	200	4,200	840
Spokane	40	4,200	168	40	4,300	172
Whatcom	2,100	6,670	14,007	2,210	7,600	16,797
Yakima	30	5,000	150	30	5,000	150
Other Counties	20	3,850	77	20	4,500	90
State Total	**4,000**	**6,300**	**25,200**	**4,200**	**6,900**	**28,980**

BLUEBERRIES

Blueberry growers had a good year in 1989. They harvested 900 acres, only 100 acres less than the record high 1,000 acres harvested in 1988. However, yields improved over a year ago with a state average of 7,000 pounds per acre. Production totaled 6.3 million pounds, 200,000 pounds less than last year, but the same level as two years ago.

Blueberries contributed $4.3 million dollars to the agricultural economy of Washington in 1989. Two thirds of the crop was processed, about the same as in previous years.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1980	800	6,380	5,100	54.7
1981	800	5,750	4,600	60.5
1982	900	6,800	6,120	70.0
1983	900	8,000	7,200	64.4
1984	800	6,000	4,800	49.8
1985	800	6,875	5,500	62.9
1986	800	3,625	2,900	69.7
1987	900	7,000	6,300	68.4
1988	1,000	6,500	6,500	75.9
1989	900	7,000	6,300	68.7

Blueberries by County

County	1988			1989		
	Acreage Harvested	Yield	Production	Acreage Harvested	Yield	Production
	Acres	Lbs.	1,000 Lbs.	Acres	Lbs.	1,000 Lbs.
Clark	120	5,000	600	120	9,000	1,080
King	50	3,000	150	40	3,000	120
Lewis	120	4,500	540	120	4,900	588
Pierce	100	5,700	570	50	5,000	250
Skagit	30	3,667	110	70	5,400	378
Snohomish	40	7,000	280	40	4,900	196
Thurston	120	7,333	880	120	6,500	780
Whatcom	390	8,333	3,250	320	8,900	2,848
Other Counties	30	4,000	120	20	3,000	60
State Total	**1,000**	**6,500**	**6,500**	**900**	**7,000**	**6,300**

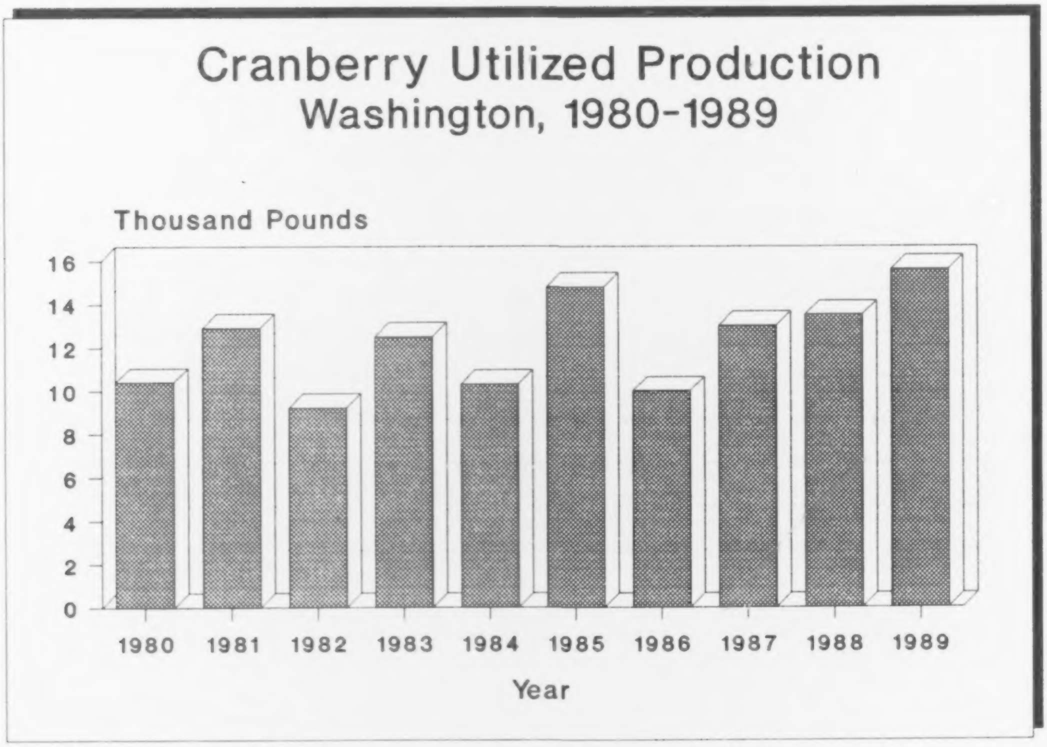
CRANBERRIES

Cranberry acreage in Washington continued to climb, with 1,400 acres harvested in 1989, a new record high for the State, and 100 acres above the previous year. Cranberry bogs yielded 111.4 barrels per acre, compared with 103.8 barrels per acre in 1988, and 100.0 barrels per acre in 1987. Washington's record yield was set in 1968, at 162.0 barrels per acre.

Washington cranberry production for 1989 totaled 156 thousand barrels, 21 thousand barrels above last year, and 26 thousand barrles above two years ago. The increase in production was offset with lower prices, but the total value of the 1989, at $6.35 million, is 5 percent higher than the 1988 crop.

Acreage, Production, and Price

Year	Acreage Harvested	Yield Per Acre	Utilized Production	Average Price Per Lb.
	Acres	Lbs.	1,000 Lbs.	Cents
1980	1,100	9,450	10,400	33.1
1981	1,100	11,730	12,900	41.7
1982	1,100	8,360	9,200	47.1
1983	1,100	11,360	12,500	52.5
1984	1,100	9,360	10,300	55.4
1985	1,200	12,330	14,800	55.5
1986	1,200	8,330	10,000	45.3
1987	1,300	10,000	13,000	45.0
1988	1,300	10,380	13,500	44.9
1989	1,400	11,140	15,600	40.7



LIVESTOCK AND POULTRY
General Information

The Washington Agricultural Statistics Service has made many adjustments in survey techniques and estimating procedures to keep abreast of changes in agriculture and to satisfy increased data needs, especially in the livestock industry. For years, surveys consisted of questionnaires mailed to informed livestock and poultry producers, asking about livestock inventories, marketings, death losses and egg production. Today, scientific probability surveys are used to select a sample of producers to be asked specific questions about livestock and poultry on their farms and ranches.

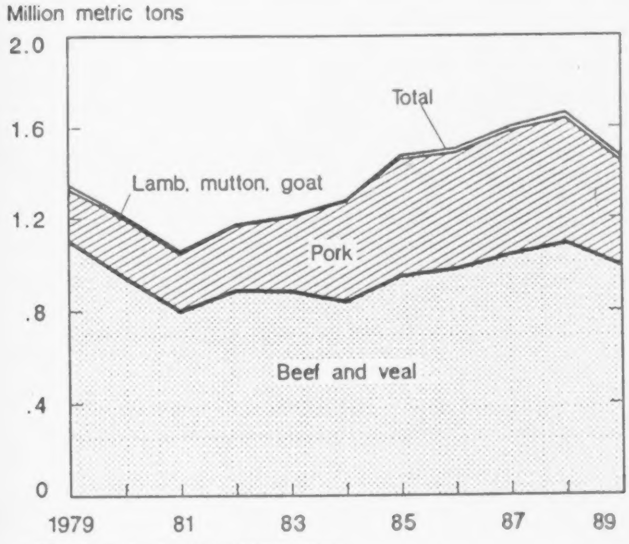
Basic requirements for livestock and poultry probability surveys are a suitable sampling frame, which includes all producers, and a method of selecting a sample from this frame with known probabilities. Probability sample surveys and estimating procedures have the property of being unbiased and can provide measures of precision and reliability to the resulting survey estimate. Many questionnaires are still mailed, but farm operators not responding by mail are phoned or personally interviewed, so that the total sample selected is represented.

The value of production of all livestock, dairy, and poultry reached $1.13 billion in 1989. The increase of $98.5 million in value from 1988 was due mostly to a $63.4 million increase in value of milk sales. All other livestock and poultry items increased, except honey which declined by $160 thousand.

Washington farm operators and agricultural service firms have voluntarily supplied the data needed to compile the many livestock and poultry estimates. To these people, we all owe a special debt of gratitude.

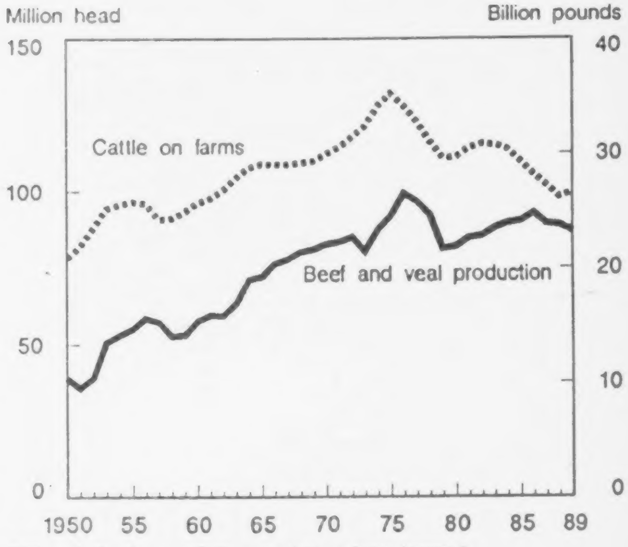
We hope the livstock and poultry statistics in the following section will be useful and answer many questions about Washington agriculture.

U.S. Imports of Red Meat



1989 estimated. Carcass-weight equivalent.

U.S. Cattle Numbers and Beef Production



1989 production forecast. Cattle and calves on farms January 1.

Value of Production, Washington

Commodity	1985	1986	1987	1988	1989	1989 % of Total
			$1,000			%
Milk	478,471	468,980	474,991	495,851	559,224	49.5
All Cattle	287,784	294,337	325,594	401,461	402,172	35.6
Eggs	55,103	55,577	48,211	55,402	79,131	7.0
Chickens, Broilers	32,890	35,015	35,751	40,862	50,508	4.5
All Hogs and Pigs	7,223	7,227	9,268	8,717	9,411	.8
Mink	7,910	8,085	11,325	9,219	9,080	.8
All Sheep and Lambs	3,200	3,376	3,376	3,715	3,956	.3
Honey	N/A	1,728	1,815	1,405	1,245	.1
Chickens, Layers	1,170	1,034	1,094	799	855	.1
Wool	279	320	482	627	668	.1
Minor Livestock and Poultry	11,121	10,635	12,594	13,790	14,086	1.2
Total	**885,151**	**886,314**	**924,501**	**1,031,848**	**1,130,336**	**100**

Inventory and Value, January 1

Species and Year	Washington			United States		
	Inventory	Value		Inventory	Value	
		Per Head	Total		Per Head	Total
	1,000 Head	Dollars	1,000 Dollars	1,000 Head	Dollars	1,000 Dollars
All Cattle and Calves						
1986	1,460	440.00	642,400	105,378	391.00	41,230,884
1987	1,300	485.00	630,500	102,118	407.00	41,567,085
1988	1,290	610.00	786,900	99,622	523.00	52,147,845
1989	1,300	665.00	864,500	99,180	607.00	60,234,219
1990	1,330	690.00	917,700	99,337	641.00	63,627,207
All Hogs and Pigs 1/						
1986	51	77.00	3,927	52,313	69.60	3,640,368
1987	50	111.00	5,550	50,920	91.90	4,679,398
1988	55	84.00	4,620	54,620	76.10	4,158,300
1989	53	69.00	3,657	55,469	66.30	3,677,751
1990	56	92.50	5,180	53,852	79.10	4,258,285
All Sheep and Lambs						
1986	58	68.00	3,944	9,983	67.40	684,038
1987	59	75.50	4,455	10,334	75.70	799,254
1988	72	78.50	5,652	10,784	90.00	984,961
1989	74	76.50	5,661	10,858	82.40	894,912
1990	83	85.00	7,055	11,368	79.40	903,598
All Chickens 1/ 2/						
1986	6,624	1.85	12,254	368,548	1.90	700,150
1987	5,700	1.60	9,120	369,131	1.87	690,818
1988	6,005	1.60	9,608	377,727	1.87	706,131
1989	6,085	1.65	10,040	356,105	2.04	726,442
1990	5,826	2.00	11,652	355,790	2.16	769,527
Total Value -- All Species 2/						
1986			662,525			46,255,440
1987			649,625			47,736,555
1988			806,780			57,997,237
1989			883,858			65,533,324
1990			941,587			69,558,617

1/ December 1 of previous year.
2/ Excludes broilers.

CATTLE AND CALVES

Cattle and calves were ranked third in value of production among the principal agricultural commodities produced in Washington during 1989. The value of production was at a record high $402.2 million for 1989, surpassing the previous year's record of $401.5 million. The increased inventory and high beef prices held value of production at the record high level.

The January 1, 1990 inventory of all cattle and calves, at 1,330,000 head, was up 2 percent from the previous year. This continues the 3-year cycle of increasing inventory numbers. Both beef cow and dairy cow numbers increased.

The number of farms having one or more head of cattle in 1989 were estimated at 21,000, unchanged from the previous year's revised estimate.

Inventory on Farms by Class, January 1

Class	1986	1987	1988	1989	1990
			1,000 Head		
Cows and Heifers that have Calved:					
Beef Cows	404	392	354	359	379
Milk Cows	226	208	216	216	221
Total	**630**	**600**	**570**	**575**	**600**
Heifers, 500 pounds and over:					
For Beef Cow Replacement	73	75	72	83	82
For Milk Cow Replacement	115	80	80	104	102
Other Heifers	112	103	133	105	117
Total	**300**	**258**	**285**	**292**	**301**
Steers, 500 pounds and over	236	209	233	233	231
Bulls, 500 pounds and over	28	23	22	25	24
Calves, less than 500 pounds	266	210	180	175	174
All Cattle and Calves	**1,460**	**1,300**	**1,290**	**1,300**	**1,330**
Number of Cattle Operations 1/	**22,000**	**21,000**	**21,000**	**21,000**	**2/**
Number of Beef Cow Operations 1/ 3/	**17,000**	**16,000**	**16,000**	**16,000**	**2/**

1/ Any place having one or more head on hand at any time during the year.
2/ Available February 1991.
3/ Included in cattle operations.

Balance Sheet

Year	Inventory January 1	Calf Crop	Inshipments	Marketings 1/		Farm Slaughter 2/	Deaths		Inventory Following January 1
				Cattle	Calves		Cattle	Calves	
				1,000 Head					
1985	1,470	550	173	511	99	38	30	55	1,460
1986	1,460	540	167	635	117	37	28	50	1,300
1987	1,300	525	213	545	100	33	25	45	1,290
1988	1,290	530	310	657	80	21	27	45	1,300
1989	1,300	520	230	590	55	15	25	35	1,330

1/ Excludes interfarm sales within the State.
2/ Excludes custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.		Value of:			
			Cattle	Calves	Production	Cash Receipts	Home Consumption	Gross Income
	1,000 Pounds		Dollars		1,000 Dollars			
1985	524,720	607,670	54.90	53.70	287,784	333,374	25,740	359,114
1986	553,260	737,980	53.20	52.90	294,337	392,552	24,437	416,989
1987	532,580	633,250	61.00	76.00	325,594	388,458	24,700	413,158
1988	610,210	781,060	65.30	84.80	401,461	513,113	20,862	533,975
1989	589,010	701,200	67.90	82.30	402,172	478,261	13,045	491,306

1/ Adjustments made for changes in inventory and for inshipments.

2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

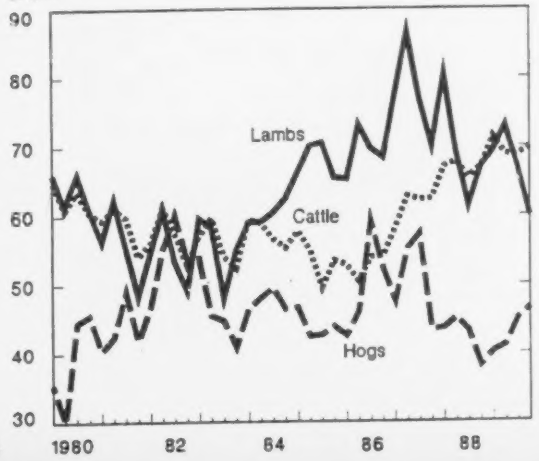
Commercial Slaughter

Year and Month	Washington			United States		
	Head	Liveweight Per Head	Liveweight Total	Head	Liveweight Per Head	Liveweight Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1989 January	72.4	1,181	85,502	2,793.5	1,148	3,205,597
February	65.6	1,159	76,002	2,568.0	1,133	2,908,704
March	73.4	1,150	84,437	2,818.7	1,125	3,170,933
April	61.4	1,132	69,510	2,644.0	1,115	2,946,885
May	70.2	1,126	79,085	3,025.3	1,105	3,341,948
June	78.1	1,144	89,331	3,024.4	1,116	3,374,893
July	73.2	1,165	85,315	2,794.1	1,123	3,138,918
August	77.0	1,186	91,326	3,047.0	1,142	3,478,221
September	71.8	1,201	86,290	2,773.8	1,150	3,190,930
October	65.2	1,200	78,227	2,964.1	1,151	3,413,051
November	68.7	1,203	82,573	2,784.6	1,153	3,211,920
December	66.2	1,188	78,606	2,679.6	1,151	3,084,657
1985................	936.6	1,169	1,095,063	36,292.7	1,098	39,841,063
1986................	928.2	1,144	1,061,971	37,288.3	1,100	41,031,617
1987................	849.8	1,153	979,978	35,646.9	1,105	39,386,808
1988................	911.2	1,178	1,073,808	35,078.9	1,120	39,293,886
1989................	843.2	1,170	986,203	33,917.2	1,134	38,466,658

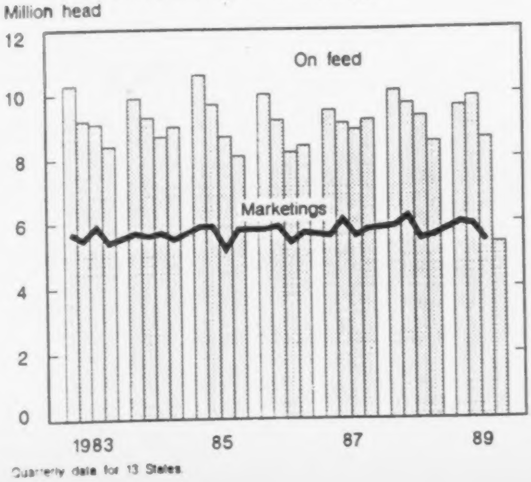
Cattle on Feed, Placements and Marketings

Year/ Quarter	Cattle & Calves on Feed				Previous Quarter		
	Total All	Steers	Heifers	Cows & Others	Placements	Market-ings	Other Disap-pearance
				1,000 Head			
1985							
Jan.	203	146	57	0	124	140	2
Apr.	158	104	54	0	131	171	5
Jul.	154	98	53	6	111	109	6
Oct.	204	135	69	0	150	98	2
1986							
Jan.	198	125	73	0	115	118	3
Apr.	161	96	65	0	108	143	2
Jul.	144	86	57	1	108	122	3
Oct.	166	102	64	0	99	75	2
1987							
Jan.	138	94	44	0	91	116	3
Apr.	138	87	51	0	98	96	2
Jul.	151	99	52	0	102	87	2
Oct.	197	120	77	0	157	109	2
1988							
Jan.	198	117	80	1	127	124	2
Apr.	172	106	66	0	107	129	4
Jul.	170	107	63	0	110	111	1
Oct.	201	127	73	1	153	120	2
1989							
Jan.	190	127	63	0	120	124	7
Apr.	163	93	70	0	80	102	5
Jul.	156	96	60	0	101	105	3
Oct.	186	109	77	0	147	115	2
1990							
Jan.	170	93	77	0	102	114	4
Apr.	165	99	66	0	106	106	5
Jul.	145	83	62	0	84	102	2

Livestock prices received by farmers, U.S.



Cattle on feed and marketings

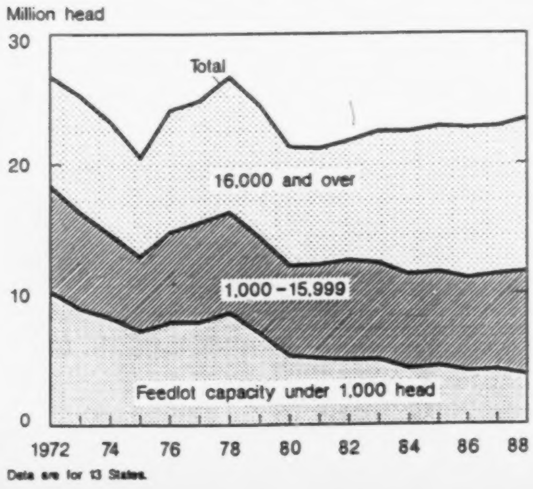


Quarterly data for 13 States

Cattle on Feed by Weight Groups

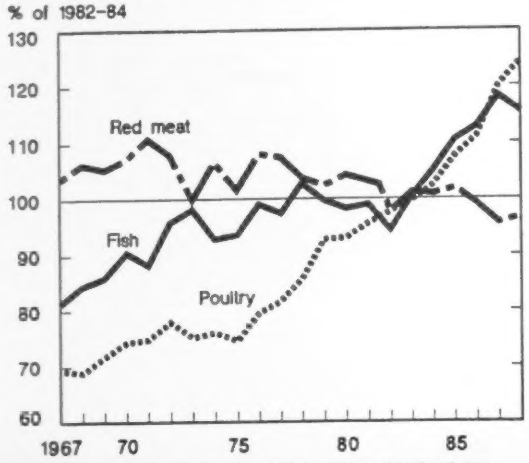
Year/ Quarter	Steers and Steer Calves: Under 500 Lbs	Steers and Steer Calves: 500-699 Lbs	Steers and Steer Calves: 700-899 Lbs	Steers and Steer Calves: 900-1,099 Lbs	Steers and Steer Calves: 1,100+ Lbs	Heifers and Heifer Calves: Under 500 Lbs	Heifers and Heifer Calves: 500-699 Lbs	Heifers and Heifer Calves: 700-899 Lbs	Heifers and Heifer Calves: 900+ Lbs
	1,000 Head								
1985									
Jan.	0	2	21	74	49	0	2	22	33
Apr.	0	3	33	45	23	0	4	27	23
Jul.	0	5	44	33	16	2	4	25	22
Oct.	0	2	43	66	24	0	2	29	38
1986									
Jan.	0	5	25	59	36	0	6	22	45
Apr.	0	2	25	48	21	0	5	30	30
Jul.	0	3	21	43	19	0	2	20	35
Oct.	0	3	25	45	29	0	10	31	23
1987									
Jan.	0	13	32	37	12	0	7	23	14
Apr.	0	6	37	36	8	0	13	27	11
Jul.	0	3	32	53	11	0	4	30	18
Oct.	0	1	46	54	19	0	12	34	31
1988									
Jan.	0	8	38	56	15	0	7	35	38
Apr.	0	5	39	43	19	0	7	32	27
Jul.	0	4	24	44	35	0	4	23	36
Oct.	0	11	37	55	24	0	11	37	25
1989									
Jan.	0	9	45	57	16	0	6	24	33
Apr.	0	3	30	47	13	0	5	33	32
Jul.	0	3	27	40	26	0	3	26	31
Oct.	0	5	36	44	24	0	9	39	29
1989									
Jan.	0	5	21	39	28	0	7	30	40
Apr.	0	7	41	34	17	0	10	34	22
Jul.	0	2	18	36	27	0	4	23	30

Fed cattle marketed by feedlot capacity



Data are for 13 States.

Per capita consumption of red meat, poultry and fish, U.S.



Indexes based on pounds consumed per person, boneless trimmed equivalent.

Dairy
General Information

The value of milk regained first place among the forty principal agricultural commodities produced in Washington during 1989. The value of milk production, at $559.2 million, rose 13 percent over the previous year to a new record high. Both milk production and milk price increased. The milk price rose $1.15 per cwt. from $12.50 in 1988 to $13.65 in 1989.

Washington's dairy industry is centered in western Washington. However, Yakima County in eastern Washington is steadily growing.

Milk Production, Utilization, Marketing, and Value

Production and Use	Unit	1985	1986	1987	1988	1989
Production And Utilization						
Production of milk:						
Total milk produced on farms	Mil. Lbs.	3,750	3,762	3,763	3,966	4,097
Milkfat produced	Mil. Lbs.	140	139	139	148	152
Percentage of milkfat	Percent	3.73	3.70	3.69	3.72	3.7[illegible]
Utilization:						
Milk Marketed by Producers:						
Sold to plants and dealers as whole milk 1/	Mil. Lbs.	3,582	3,582	3,570	3,766	3,922
Sold directly to consumers	Mil. Lbs.	149	155	172	176	150
Milk used where produced:						
Fed to calves	Mil. Lbs.	16	21	17	20	21
Used by farm household	Mil. Lbs.	3	4	4	4	4
Marketings						
Milk Marketed by Producers:						
Sold to plants and dealers:						
Whole milk sold 1/	Mil. Lbs.	3,582	3,582	3,570	3,766	3,922
Price per Cwt.	Dollars	12.40	12.10	12.20	12.00	13.30
Cash receipts	1,000 Dol.	444,168	433,422	435,540	451,920	521,626
Sold Directly to Consumers:						
Quantity	1,000 Qts.	69,302	72,093	80,000	81,860	69,767
Price per quart	Cents	46	45	46	50	49
Cash receipts	1,000 Dol.	31,879	32,442	36,800	40,930	34,186
Total Marketings:						
Milk Utilized	Mil. Lbs.	3,731	3,737	3,742	3,942	4,072
Price Per Cwt. of milk	Dollars	12.76	12.47	12.62	12.50	13.65
Price per pound milkfat	Dollars	3.42	3.37	3.42	3.36	3.68
Total cash receipts	1,000 Dol.	476,047	465,864	472,340	492,850	555,812
Farm Use						
Value of milk used where produced 2/	1,000 Dol.	2,424	3,116	2,651	3,001	3,412
Total Value of Milk Produced	**1,000 Dol.**	**478,471**	**468,980**	**474,991**	**495,851**	**559,224**
Number of operations with milk cows	**Number**	**3,400**	**3,200**	**3,000**	**3,000**	**3,000**

1/ Includes the equivalent amounts of milk for cream sold to plants and dealers.
2/ Includes value of milk fed to calves and milk used by farm household.

MILK COWS AND MILK PRODUCTION

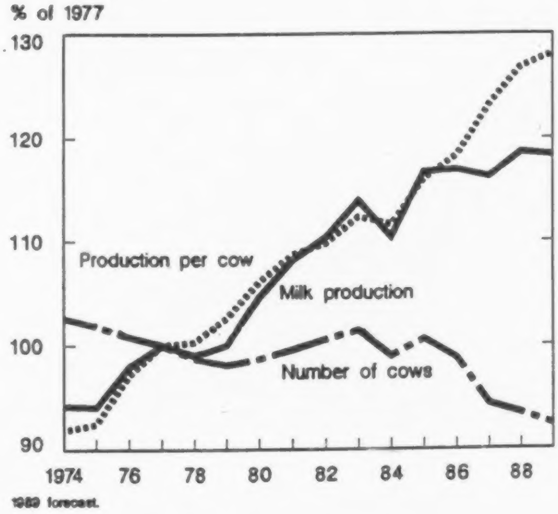
Early settlers in Washington depended on dairy as a main food source. Milk cow numbers were 16,938 head in 1870 with a state population of 23,955 people. Washington averaged 225,000 head of milk cows in 1989 compared to a population of 4.661 million people. The ratio of cows per person has declined from .71 in 1870 to .05 in 1989. This declining ratio was offset by the increase in milk production per cow. Washington leads the nation with an annual average of 18,209 pounds of milk per cow in 1989. Total milk production was 4.097 million pounds in 1989 compared to 181,116 pounds in 1870.

The number of milk cows in Washington increased 2 percent from an average of 221,000 in 1988 to 225,000 in 1989. Total average milk production per cow increased 2 percent, from 17,946 pounds of milk in 1988 to 18,209 pounds in 1989. Total production increased over 3 percent from 3,966 million pounds in 1988 to 4.097 million pounds in 1989.

Milk Cows on Farms

Month	1985	1986	1987	1988	1989
	1,000 Head				
January	213	226	213	216	223
February	214	223	214	218	223
March	217	223	214	220	222
April	219	219	213	221	225
May	222	218	215	222	227
June	227	215	221	223	228
July	231	213	218	222	227
August	232	209	211	223	225
September	227	206	215	225	224
October	225	206	216	223	226
November	225	205	216	221	225
December	226	208	220	221	225
Average	**223**	**214**	**216**	**221**	**225**

Milk production, number of cows, and milk per cow, U.S.



1989 forecast.

Milk Production per Cow 1/ — Total Milk Production

Month	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
	Pounds					Million Pounds				
January	1,365	1,420	1,425	1,480	1,490	291	321	304	320	333
February	1,245	1,320	1,305	1,400	1,360	266	294	279	305	303
March	1,405	1,485	1,465	1,510	1,535	305	331	314	332	341
April	1,415	1,490	1,475	1,495	1,520	310	326	314	330	342
May	1,495	1,540	1,540	1,570	1,590	332	336	331	349	361
June	1,425	1,500	1,495	1,510	1,530	323	323	330	337	349
July	1,450	1,550	1,510	1,560	1,590	335	330	329	346	361
August	1,440	1,530	1,495	1,535	1,575	334	320	315	342	354
September	1,390	1,450	1,455	1,470	1,495	316	299	313	331	335
October	1,425	1,455	1,455	1,470	1,520	321	300	314	328	343
November	1,350	1,400	1,405	1,430	1,465	304	287	303	316	330
December	1,385	1,420	1,440	1,495	1,535	313	295	317	330	345
Annual *	**16,816**	**17,579**	**17,421**	**17,946**	**18,209**	**3,750**	**3,762**	**3,763**	**3,966**	**4,097**

1/ Numbers were adjusted for 1985-88.

DAIRY PRODUCTS

Low fat cottage cheese increased slightly, while creamed cottage cheese continued to decline through 1989. Total cheese production (excluding cottage cheese) increased by 17%, as well as the Italian cheese by 41% from 1988.

Ice cream mix declined 9% below 1988, as well as ice cream product by 10% below 1988. Ice milk mix dropped slightly, while ice milk product dropped 3% from 1988. Sherbet also declined 13% from 1988.

The number of manufacturing plants produced one or more dairy products in Washington totaled 25 during 1989.

	Lowfat Cottage Cheese					Creamed Cottage Cheese				
Month	**1985**	**1986**	**1987**	**1988**	**1989**	**1985**	**1986**	**1987**	**1988**	**1989**
	1,000 Pounds					1,000 Pounds				
January	764	804	833	790	996	2,114	1,962	2,063	1,855	1,594
February	661	787	872	885	850	1,998	1,692	1,931	1,778	1,404
March	798	878	865	832	930	2,064	1,841	2,115	1,863	1,684
April	756	878	921	796	913	2,118	1,890	2,023	1,787	1,396
May	829	809	918	912	998	2,301	2,089	2,085	1,959	1,485
June	740	869	897	774	980	2,138	1,889	2,047	2,186	1,552
July	873	873	891	888	821	2,187	1,956	2,106	1,741	1,456
August	804	850	942	976	1,014	2,075	1,797	1,897	1,919	1,652
September	660	855	905	873	900	1,914	1,983	1,781	1,861	1,399
October	833	793	890	792	928	2,115	2,039	1,898	1,734	1,412
November	666	736	770	781	927	1,841	1,751	1,719	1,738	1,332
December	632	719	738	719	904	1,807	1,750	1,821	2,216	1,264
Annual	**9,016**	**9,851**	**10,442**	**10,018**	**11,161**	**24,672**	**22,639**	**23,486**	**22,637**	**17,630**

	Italian Cheese Production					Total Cheese Excluding Cottage				
Month	**1985**	**1986**	**1987**	**1988**	**1989**	**1985**	**1986**	**1987**	**1988**	**1989**
	1,000 Pounds					1,000 Pounds				
January	1,398	1,756	2,067	2,006	2,044	4,046	4,545	4,600	4,253	4,627
February	1,506	1,585	1,821	2,167	1,634	3,661	4,168	4,026	4,380	3,978
March	1,669	1,969	2,256	2,191	1,958	4,466	4,087	4,674	4,900	4,546
April	1,803	1,878	1,893	2,132	2,192	3,358	4,733	4,333	4,219	4,522
May	1,827	1,900	1,789	2,188	2,539	3,574	4,841	4,271	4,674	5,249
June	1,828	1,905	2,290	2,120	2,507	3,600	5,049	5,000	4,440	5,515
July	1,871	1,931	2,332	2,056	2,499	5,505	5,216	5,252	4,042	5,238
August	1,832	2,010	2,149	2,098	3,718	4,996	5,166	4,709	4,432	6,653
September	1,675	1,922	2,334	2,072	4,119	4,513	4,704	5,548	4,542	6,835
October	1,829	2,129	2,306	2,053	4,235	4,943	5,029	5,931	4,520	7,184
November	1,605	2,091	2,008	2,098	3,873	4,486	4,555	4,738	4,687	6,538
December	1,871	2,193	2,051	2,054	4,319	4,703	5,082	4,797	4,643	6,745
Annual	**20,714**	**23,269**	**25,296**	**25,235**	**35,637**	**51,851**	**57,175**	**57,879**	**53,732**	**67,630**

Ice Cream Mix

Month	1985	1986	1987	1988	1989
	1,000 Pounds				
January	653	584	651	527	626
February	602	693	672	611	627
March	754	727	823	786	807
April	742	786	852	719	653
May	863	792	856	817	848
June	895	984	927	894	802
July	1,028	865	908	928	892
August	820	879	975	943	841
September	680	788	745	758	615
October	702	718	704	917	549
November	636	856	653	611	574
December	722	660	648	610	462
Annual	**9,097**	**9,332**	**9,414**	**9,121**	**8,296**

Total Ice Cream

Month	1985	1986	1987	1988	1989
	1,000 Pounds				
January	1,362	1,218	1,270	1,064	1,257
February	1,203	1,353	1,343	1,223	1,235
March	1,529	1,490	1,592	1,516	1,671
April	1,449	1,569	1,653	1,515	1,326
May	1,692	1,580	1,759	1,535	1,652
June	1,868	1,920	1,824	1,238	1,595
July	2,041	1,665	1,870	1,860	1,753
August	1,545	1,721	1,948	1,716	1,673
September	1,343	1,577	1,501	1,479	1,234
October	1,374	1,438	1,308	1,845	1,121
November	1,309	1,696	1,316	1,229	1,111
December	1,438	1,330	1,268	1,191	940
Annual	**18,153**	**18,557**	**18,652**	**17,411**	**16,568**

Ice Milk Mix

Month	1985	1986	1987	1988	1989
	1,000 Pounds				
January	328	249	208	228	245
February	290	251	239	222	240
March	345	328	302	324	319
April	407	349	312	333	386
May	476	399	425	377	379
June	449	431	391	430	463
July	494	428	438	492	338
August	407	425	376	467	454
September	323	352	364	346	389
October	297	330	312	349	307
November	248	280	268	305	312
December	284	299	290	322	289
Annual	**4,348**	**4,121**	**3,925**	**4,195**	**4,121**

Total Ice Milk

Month	1985	1986	1987	1988	1989
	1,000 Pounds				
January	587	447	470	506	551
February	478	457	526	523	553
March	591	615	710	763	772
April	682	662	700	750	920
May	822	747	919	902	909
June	787	767	835	1,020	1,106
July	915	763	1,014	1,146	689
August	830	765	872	1,159	1,081
September	657	648	862	829	923
October	552	600	820	839	678
November	414	500	620	691	721
December	500	526	671	727	657
Annual	**7,815**	**7,497**	**9,019**	**9,855**	**9,560**

Per Capita Consumption, U.S.

Year	Cottage Cheese Total	Total Cheese	Italian	Ice Cream	Ice Milk	Sherbet
	Pounds					
1971	5.3	12.0	2.3	17.7	7.6	1.5
1976	4.7	15.5	3.6	18.0	7.2	1.5
1981	4.3	18.2	4.5	17.4	7.0	1.3
1986	4.1	23.0	7.0	18.4	7.2	1.3
1987	3.9	24.0	7.6	18.3	7.4	1.2
1988	3.9	23.6	8.1	17.2	7.9	1.3

SOURCE: ERS Statistical Bulletin No. 804, May 1990

Sherbet

Month	1985	1986	1987	1988	1989
	1,000 Pounds				
January	96	108	132	85	110
February	75	105	94	96	95
March	155	136	129	138	145
April	142	115	160	134	122
May	134	148	166	217	162
June	111	150	147	132	145
July	172	176	131	126	125
August	137	96	131	215	133
September	68	97	121	103	81
October	121	97	109	136	99
November	71	97	92	96	73
December	125	134	112	105	94
Annual	**1,407**	**1,459**	**1,524**	**1,583**	**1,384**

Hogs

The inventory of all hogs and pigs on Washington's 3,000 hog farms totaled 56,000 head on December 1, 1989. This was an increase of 3,000 head from the previous year. Both breeding and market hogs increased slightly.

During 1989, 13,400 sows farrowed an average 8.0 pigs per litter. The total pig crop for 1989 was 107,000 head.

The 1989 value of production was estimated at $9.41 million compared to $8.72 million in 1988. The average price for all hogs and pigs in 1989 was estimated at $42.20 per 100 pounds, $1.90 above 1988.

Inventory on Farms by Class, December 1

Class	1985	1986	1987	1988	1989
			1,000 Head		
Hogs					
Breeding Hogs	6	9	6	7	9
Market Hogs	45	41	49	46	47
All Hogs	51	50	55	53	56
Number of Hog Operations 1/	3,300	3,300	3,200	3,400	3,000

1/ Any place having one or more head on hand at any time during the year.

Pig Crop

Year	December 1/ - February			March-May		
	Sows Farrowed	Pigs Per Litter	Pig Crop	Sows Farrowed	Pigs Per Litter	Pig Crop
	1,000 Head	Head	1,000 Head	1,000 Head	Head	1,000 Head
1985	2.6	*	*	2.4	7.5 *	38 *
1986	2.7	*	*	1.9	7.7 *	31 *
1987	3.6	*	*	2.4	7.0 *	42 *
1988	3.4	8.2	28	3.4	6.5	22
1989	3.0	7.0	21	4.4	8.0	35

Year	June-August			September-November		
	Sows Farrowed	Pigs Per Litter	Pig Crop	Sows Farrowed	Pigs Per Litter	Pig Crop
	1,000 Head	Head	1,000 Head	1,000 Head	Head	1,000 Head
1985	2.8	*	*	2.2	8.0 *	40 *
1986	1.9	*	*	3.1	7.8 *	39 *
1987	2.6	*	*	3.4	8.2 *	49 *
1988	3.3	7.9	26	2.8	7.9	22
1989	3.0	8.0	24	3.0	9.0	27

1/ December of the preceding year.

* Sows farrowed are shown for 3-month periods, while litter size and pig crop are available only for 6-month periods.

Balance Sheet

Year	Beginning Inventory Prev. Yr.	Pigs Saved		Inshipment	Marketings 1/	Farm Slaughter 2/	Deaths	Inventory December 1
		Dec.- May	Jun.- Nov.					
	1,000 Head							
1985	45	38	40	0	56	11	5	51
1986	51	31	39	0	61	4	6	50
1987	50	42	49	0	73	6	7	55
1988	55	50	48	0	89	3	8	53
1989	53	56	51	0	84	12	8	56

1/ Excludes interfarm sales within the State.
2/ Excludes custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.	Value of:			
				Production	Cash Receipts	Home Consumption	Gross Income
	1,000 Pounds		Dollars	1,000 Dollars			
1985	16,605	12,756	43.50	7,223	5,549	1,224	6,773
1986	~~15,058~~	11,265	48.00	7,227	5,407	1,886	7,293
1987	18,536	13,246	50.00	9,268	6,623	2,599	9,222
1988	21,629	19,664	40.30	8,717	7,925	764	8,689
1989	22,301	18,713	42.20	9,411	7,897	1,274	9,171

1/ Adjustments made for changes in inventory and for inshipments.
2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

Commercial Slaughter

Year and Month	Washington			United States		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1989 January	1.6	233	372	7,316.2	249	1,821,854
February	1.2	231	285	6,796.8	247	1,679,216
March	1.6	232	380	7,763.0	247	1,916,650
April	1.3	232	295	7,382.7	250	1,847,174
May	1.6	230	367	7,480.3	251	1,874,330
June	1.6	234	377	7,080.9	250	1,771,245
July	1.4	233	327	6,301.3	246	1,552,807
August	1.7	234	400	7,587.5	246	1,866,232
September	1.4	240	331	7,678.3	246	1,886,361
October	1.9	190	359	8,032.1	248	1,991,588
November	1.7	228	380	8,039.3	251	2,016,329
December	1.4	236	319	7,233.0	249	1,803,034
1985................	39.3	235	9,247	84,491.9	245	20,666,685
1986................	29.5	240	7,088	79,598.2	246	19,564,663
1987................	19.2	231	4,429	81,080.8	247	20,060,447
1988................	18.2	235	4,281	87,794.6	249	21,838,367
1989................	18.4	228	4,191	88,691.5	248	22,026,822

Sheep and Lambs

Wool prices reached a record high in 1989. The average price rose to $1.04 per pound to the wool producer. A combination of increased price and wool production generated $668,000 for the total value of wool shorn. Sheep shorn have increased each year during the past four years, reaching 74 thousand head in 1989.

The inventory of all sheep and lambs has risen for the fifth consecutive year to 83 thousand head currently. Value of production increased to $3.96 million, up 6% from the $3.72 million in 1988. An increase in both production and price led to the increased value of production.

Number on Farms by Class, January 1

Class	1986	1987	1988	1989	1990
			1,000 Head		
Sheep and Lambs					
Ewe Lambs	9.0	9.5	12.0	14.5	15.5
Wether and Ram Lambs	3.0	3.5	4.0	4.5	5.5
Ewes, 1 year plus	44.0	44.0	54.0	51.0	58.0
Rams and Wethers, 1 year plus	2.0	2.0	2.0	4.0	4.0
All Sheep and Lambs	**58.0**	**59.0**	**72.0**	**74.0**	**83.0**
Number of Sheep Operations 1/	**2,200**	**2,200**	**2,200**	**2,200**	**2/**

1/ Any place having one or more head on hand at any time during the year.
2/ Available February, 1991.

Balance Sheet

Year	Inventory January 1	Lamb Crop	Inship-ments	Marketings 1/		Farm Slaughter 2/	Deaths		Inventory Following January 1
				Sheep	Lambs		Sheep	Lambs	
				1,000 Head					
1985	53	55	2	3	39	3	3	4	58
1986	58	58	7	7	45	4	4	4	59
1987	59	58	10	4	40	1	4	6	72
1988	72	65	8	6	55	1	3	6	74
1989	74	75	4	6	48	3	6	7	83

1/ Excludes interfarm sales within the State.
2/ Excludes custom slaughter for farmers at commercial establishments.

Production and Income

Year	Production 1/	Marketings 2/	Average Price Per Cwt.		Value of			
			Sheep	Lambs	Production	Cash Receipts	Home Consumption	Gross Income
	1,000 Pounds		Dollars		1,000 Dollars			
1985	5,515	4,571	15.20	66.70	3,200	2,893	232	3,125
1986	5,871	5,713	14.90	65.60	3,376	3,371	396	3,767
1987	5,903	4,895	24.00	74.40	3,376	3,408	111	3,519
1988	6,400	6,772	20.20	62.20	3,715	3,920	114	4,034
1989	7,286	6,026	21.20	65.00	3,956	3,612	240	3,852

1/ Adjustments made for changes in inventory and for inshipments.
2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

Commercial Slaughter

Year and Month	Washington			United States		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Pounds	1,000	Pounds	1,000 Pounds
1989 January	13.0	122	1,585	427.7	126	53,867
February	12.0	121	1,444	424.5	126	53,547
March	15.7	121	1,899	519.6	129	67,002
April	10.2	126	1,284	409.1	126	51,696
May	12.6	122	1,540	447.7	125	55,877
June	15.3	123	1,873	437.3	119	52,026
July	12.2	114	1,389	414.7	119	49,360
August	14.0	118	1,650	494.4	118	58,303
September	11.6	120	1,391	456.0	120	54,534
October	13.2	121	1,601	483.9	123	59,674
November	13.1	122	1,603	480.7	127	60,920
December	11.0	120	1,315	469.3	128	60,195
1985...............	158.0	116	18,272	6,165.2	114	702,448
1986...............	155.4	119	18,524	5,635.0	117	659,893
1987...............	156.7	118	18,498	5,199.6	119	618,670
1988...............	163.5	118	19,345	5,293.0	124	653,710
1989...............	153.8	121	18,573	5,464.8	124	677,001

Wool Production and Income

Year	Number Sheep Shorn	Weight Per Fleece	Wool Production	Price Per Pound	Value of Production
	1,000 Head	Pounds	1,000 Pounds	Cents	1,000 Dollars
1985	63	8.5	536	52	279
1986	66	8.1	533	60	320
1987	70	8.9	626	77	482
1988	72	8.6	621	101	627
1989	74	8.7	642	104	668

POULTRY

Washington has two types of commercial poultry farms. The first type produces eggs, while the second type produces meat for the broiler market.

U.S. per capita egg consumption has declined steadily since the end of World War II, from an all time record high of 403 eggs in 1945 to 234 in 1989. Population growth and increasing per capita consumption of processed egg products have kept total production and sales from declining sharply. Washington's egg production during the year ending November 30, 1989 totaled 1.30 billion eggs, 2 percent below last year's 1.33 billion eggs.

Net returns to broiler producers have been very favorable. Value of broiler production in Washington reached a record high $50.5 million, 24 percent above the previous year's $40.9 million. The total number of broilers produced in 1989 was 30.5 million, up 8 percent from 1988. This increased production, coupled with higher prices which averaged 36 cents per pound on a liveweight equivalent basis, accounted for the increased value.

Inventory on Farms by Class, December 1

Class	1985	1986	1987	1988	1989
	1,000 Birds				
Hens and Pullets of Laying Age:					
Hens (1 year and older)	3,074	2,744	2,160	2,768	2,885
Pullets of laying age	2,190	2,357	2,899	2,106	1,844
Total	**5,264**	**5,101**	**5,059**	**4,874**	**4,729**
Pullets, 3 months plus	590	220	390	609	548
Pullets, less than 3 months	720	352	540	590	537
Other Chickens	50	27	16	12	12
All Chickens (excluding broilers)	**6,624**	**5,700**	**6,005**	**6,085**	**5,826**
Number of Chicken Operations 1/	**6,200**	**2/**	**2/**	**2/**	**2/**

1/ Any place having one or more head on hand at any time during the year.
2/ Estimate discontinued.

Average Number of Layers

Egg Production

Month 1/	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
	1,000 Birds					Million				
December	5,498	5,166	5,100	5,076	4,799	118	115	112	115	110
January	5,414	5,082	4,994	5,099	4,827	118	112	109	113	109
February	5,409	5,091	4,996	5,071	4,842	105	96	95	104	100
March	5,513	5,143	5,052	5,008	4,838	122	106	109	113	112
April	5,516	5,174	5,033	4,999	4,878	118	105	109	109	110
May	5,373	5,028	5,058	4,967	4,808	110	108	110	109	111
June	5,331	4,853	5,055	4,982	4,809	106	105	108	107	107
July	5,331	4,946	5,061	4,966	4,802	117	110	116	113	112
August	5,251	5,063	5,036	4,941	4,786	115	112	113	112	111
September	5,130	5,023	4,892	4,973	4,805	108	107	106	110	106
October	5,043	5,044	4,880	5,029	4,749	111	110	108	113	108
November	5,140	5,088	5,023	4,992	4,710	107	109	108	109	103
Annual Average	**5,329**	**5,059**	**5,016**	**5,008**	**4,805**	-	-	-	-	-
State Total	-	-	-	-	-	**1,355**	**1,295**	**1,303**	**1,327**	**1,299**

1/ December 1 previous year to November 30.
- Not applicable.

Chicken Production and Income 1/ 2/

Egg Production and Income 2/

Year	Number Sold	Pounds Sold	Price Per Pound	Value of Sales	Eggs Produced	Price Per Dozen	Value of Production
	1,000 Birds	1,000 Pounds	Cents	1,000 Dollars	Millions	Cents	1,000 Dollars
1985	3,000	11,700	10.0	1,170	1,355	48.8	55,103
1986	3,400	12,920	8.0	1,034	1,295	51.5	55,577
1987	3,600	13,680	8.0	1,094	1,303	44.4	48,211
1988	3,600	13,320	6.0	799	1,327	50.1	55,402
1989	3,300	12,210	7.0	855	1,299	73.1	79,131

1/ Excluding broilers.
2/ 12 month period December 1, previous year, through November 30.

Broiler Production and Income

Year	Number Produced	Pounds Produced	Price Per Pound	Gross Income 1/
	1,000 Birds	1,000 Pounds	Cents	1,000 Dollars
1985	23,000	101,200	32.5	32,890
1986	25,100	112,950	31.0	35,015
1987	26,800	123,280	29.0	35,751
1988	28,200	129,720	31.5	40,862
1989	30,500	140,300	36.0	50,508

1/ Includes value of home consumption.

Commercial Broiler Slaughter 1/

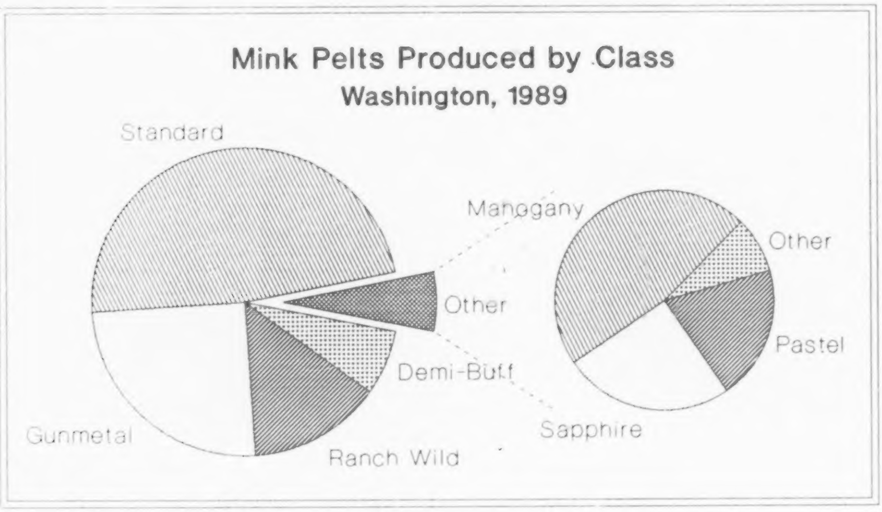
Year	Washington			United States		
	Number Slaughtered	Average Liveweight	Certified Pounds 2/	Number Slaughtered	Average Liveweight	Certified Pounds 2/
	1,000 Head	Pounds	1,000 Pounds	1,000 Head	Pounds	1,000 Pounds
1985	22,586	4.39	73,723	4,439,051	4.19	13,569,794
1986	25,047	4.45	83,248	4,642,784	4.23	14,265,627
1987	26,512	4.62	91,694	4,971,470	4.29	15,502,464
1988	28,607	4.59	97,877	5,158,710	4.30	22,207,755
1989	32,124	4.60	109,052	5,499,319	4.34	23,881,618

1/ January through December.
2/ Ready to cook weight.

MINK

Washington mink growers produced 237,200 pelts in 1989, down 3 percent from 1988. Washington ranked 6th nationally with 5 percent of the total U.S. pelt production. Wisconsin, Utah, Minnesota, Idaho and Pennsylvania ranked one, two, three, four and five in order of pelt production. A number of color classes were produced in Washington with Standard the most predominant. Gunmetal and Ranch Wild were also popular. These three classes accounted for 87 percent of the State's pelt production.

Snohomish County continues to be the top producer of mink pelts in Washington. Kittitas and Pierce Counties were second and third. These three counties produced nearly 74 percent of Washington's 1989 pelt production.



Mink Pelts and Females Bred to Produce Kits

Color	Pelts Produced						Females Bred to Produce Kits					
	1984	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989	1990
			1,000						1,000			
Standard	100.2	109.6	109.2	113.0	123.2	113.5	25.3	25.3	28.3	30.1	31.0	21.3
Ranch Wild	7.1	50.1	5.6	6.1	7.6	33.4	9.4	3.6	1.7	2.2	9.2	5.6
Demi-buff	53.2	18.7	47.2	49.1	46.9	16.1	4.9	11.6	11.7	11.8	3.9	3.2
Gunmetal	30.1	33.5	42.7	43.1	50.9	59.5	9.2	10.9	12.7	14.0	13.5	11.4
Mahogany	1/	3.2	3.1	2.5	8.9	6.9	1/	.8	.6	1.2	2.2	2/
Pastel	5.2	5.2	4.9	2.3	3.5	2.9	1.1	1.3	1.1	1.1	1.0	.6
Sapphire	7.8	3.7	2/	2.2	2.5	3.7	1.9	2/	.8	.7	.9	2/
Violet Type	5.9	2/	2/	2/	2/	2/	.4	2/	2/	2/	2/	2/
Other	7.0	2.0	4.6	1.6	.5	1.2	.3	1.5	.3	.3	.3	.7
Total	**216.5**	**226.0**	**217.3**	**219.9**	**244.0**	**237.2**	**52.5**	**55.0**	**57.2**	**61.4**	**62.0**	**42.8**
Number Of Operations	**37**	**45**	**42**	**49**	**46**	**50**						

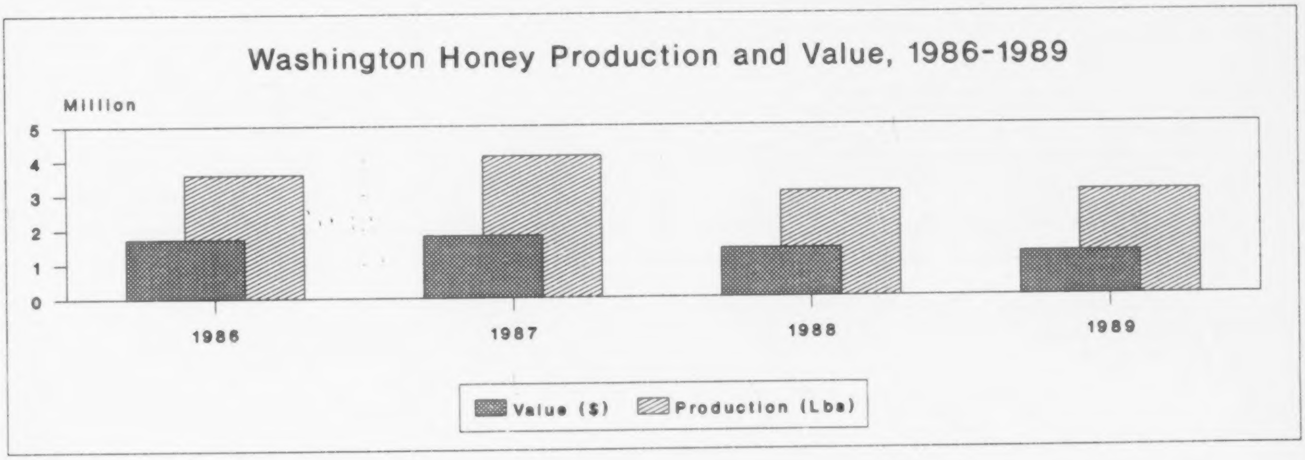
1/ Mahogany color not classified
2/ Included in Other.

BEES AND HONEY

Honey producers encountered adverse conditions in Washington during the 1989 honey season including a cold winter, diseases, mite infestations and restrictions on movement early in the year.

Honey production in 1989 from producers with 5 or more hives totaled 3.04 million pounds, down less than 1 percent from 1988. There were 66 thousand colonies producing honey in 1989, one thousand more colonies than the previous year. This ends a 5-year period of declining colony numbers.

Honey prices continue to decline. Prices for the 1989 crop averaged 41 cents per pound, down 5 cents from the revised 1988 price of 46 cents per pound. Prices are based on retail sales by producers and sales to private processors and co-ops. Government payments are excluded from the honey prices.



Bees: Number of Colonies, Stocks, Production, Price, and Value

Year	Number Of Colonies	Dec. 15 Stocks 2/	Honey Production Per Colony	Honey Production Total	Honey Value Per Pound	Honey Value Total
	1,000	1,000 Pounds	Pounds	1,000 Pounds	Cents	1,000 Dollars
1977	89	819	46	4,094	53.0	2,170
1978	90	630	35	3,150	54.9	1,729
1979	87	364	38	3,306	54.0	1,785
1980	90	454	42	3,780	57.0	2,155
1981	87	487	35	3,045	57.0	1,736
1982-85 1/	-	-	-	-	-	-
1986	75	360	48	3,600	48.0	1,728
1987	75	206	55	4,125	44.0	1,815
1988	65	306	47	3,055	46.0	1,405
1989	66	546	46	3,036	41.0	1,245

1/ Estimates not made 1982-85. 2/ Stocks in hands of producers.

- Not available.

All Cattle and Calf Inventory By County, January 1

County and District	1986	1987	1988	1989	1990
West			**Head**		
Clallam	9,800	8,700	8,600	8,600	9,000
Clark	37,600	33,500	33,300	33,000	35,000
Cowlitz	9,100	8,100	8,000	8,000	8,500
Grays Harbor	19,000	16,900	16,800	17,000	17,000
Island	7,700	6,900	6,900	7,000	8,000
Jefferson	4,400	3,900	3,900	3,900	5,000
King	41,200	36,700	36,400	37,000	38,000
Kitsap	2,000	1,800	1,800	1,900	2,000
Lewis	47,100	42,000	41,700	42,000	46,000
Mason	1,800	1,600	1,600	1,600	1,600
Pacific	10,000	8,900	8,800	9,000	11,000
Pierce	32,700	29,100	28,900	29,000	29,000
San Juan	2,600	2,300	2,300	2,400	2,200
Skagit	49,000	43,700	43,400	43,000	50,000
Skamania	1,100	1,000	1,000	1,000	1,000
Snohomish	56,100	50,000	49,700	50,000	56,000
Thurston	24,400	21,700	21,500	21,700	23,000
Wahkiakum	7,600	6,800	6,800	6,900	7,700
Whatcom	122,800	109,400	108,600	110,000	121,000
Total	**486,000**	**433,000**	**430,000**	**433,000**	**471,000**
Central					
Benton	35,700	31,700	31,400	32,000	16,000
Chelan	2,500	2,200	2,200	3,000	3,000
Kittitas	57,100	50,800	50,400	55,000	54,000
Klickitat	34,600	30,800	30,500	30,000	29,000
Okanogan	61,100	54,300	53,800	50,000	53,000
Yakima	206,000	183,200	181,700	183,000	182,000
Total	**397,000**	**353,000**	**350,000**	**353,000**	**337,000**
Northeast					
Ferry	18,800	16,800	16,600	16,500	19,000
Pend Oreille	7,300	6,500	6,400	6,500	7,000
Spokane	33,700	30,000	29,700	30,000	31,000
Stevens	41,200	36,700	36,300	36,000	35,000
Total	**101,000**	**90,000**	**89,000**	**89,000**	**92,000**
East Central					
Adams	105,200	93,700	93,100	94,000	95,000
Douglas	20,100	17,900	17,800	18,000	19,000
Franklin	78,200	70,400	70,000	71,000	68,000
Grant	110,000	97,300	96,600	98,000	98,000
Lincoln	44,500	39,700	39,500	40,000	41,000
Total	**358,000**	**319,000**	**317,000**	**321,000**	**321,000**
Southeast					
Asotin	11,600	10,300	10,200	10,200	11,000
Columbia	7,700	6,900	6,800	6,600	6,000
Garfield	13,600	12,100	12,000	12,200	13,000
Walla Walla	49,800	44,300	43,900	44,000	43,000
Whitman	35,300	31,400	31,100	31,000	36,000
Total	**118,000**	**105,000**	**104,000**	**104,000**	**109,000**
State Total	**1,460,000**	**1,300,000**	**1,290,000**	**1,300,000**	**1,330,000**

Beef Cows That Have Calved Inventory By County, January 1

County and District	1986	1987	1988	1989	1990
			Head		
West					
Clallam	3,500	3,400	3,100	3,000	3,200
Clark	9,600	9,300	8,400	8,500	9,000
Cowlitz	3,400	3,300	3,000	3,000	3,300
Grays Harbor	3,200	3,100	2,800	2,900	2,900
Island	1,500	1,400	1,300	1,300	2,000
Jefferson	1,000	1,000	900	900	1,500
King	4,200	4,100	3,700	3,800	4,200
Kitsap	1,000	1,000	900	900	900
Lewis	10,600	10,300	9,300	9,500	11,500
Mason	700	700	600	600	600
Pacific	3,900	3,800	3,400	3,500	5,000
Pierce	4,900	4,700	4,300	4,400	4,500
San Juan	1,300	1,300	1,200	1,200	1,100
Skagit	4,200	4,100	3,700	3,700	4,000
Skamania	300	300	300	300	300
Snohomish	6,100	5,900	5,300	5,400	6,000
Thurston	5,200	5,000	4,500	4,500	5,000
Wahkiakum	2,100	2,000	1,800	1,800	2,000
Whatcom	7,100	6,900	6,200	6,300	7,000
Total	**73,800**	**71,600**	**64,700**	**65,500**	**74,000**
Central					
Benton	16,800	16,300	14,700	12,000	7,500
Chelan	1,500	1,500	1,400	1,500	1,500
Kittitas	22,300	21,600	19,500	20,000	21,000
Klickitat	17,200	16,700	15,100	15,500	15,000
Okanogan	36,200	35,100	31,700	34,000	36,000
Yakima	31,400	30,500	27,500	30,000	32,000
Total	**125,400**	**121,700**	**109,900**	**113,000**	**113,000**
Northeast					
Ferry	12,000	11,600	10,500	10,500	10,500
Pend Oreille	3,900	3,800	3,400	3,500	3,500
Spokane	13,900	13,500	12,200	12,500	15,000
Stevens	16,600	16,100	14,500	15,000	13,000
Total	**46,400**	**45,000**	**40,600**	**41,500**	**42,000**
East Central					
Adams	23,300	22,600	20,400	21,000	25,000
Douglas	9,600	9,300	8,400	8,500	9,000
Franklin	19,100	18,500	16,700	20,000	19,000
Grant	32,700	31,800	28,700	27,000	27,000
Lincoln	28,100	27,300	24,700	24,000	26,000
Total	**112,800**	**109,500**	**98,900**	**100,500**	**106,000**
Southeast					
Asotin	5,700	5,500	5,000	4,600	5,000
Columbia	4,400	4,300	3,900	2,900	3,000
Garfield	8,200	7,900	7,100	6,500	8,000
Walla Walla	7,600	7,400	6,700	7,000	7,000
Whitman	19,700	19,100	17,200	17,500	21,000
Total	**45,600**	**44,200**	**39,900**	**38,500**	**44,000**
State Total	**404,000**	**392,000**	**354,000**	**359,000**	**379,000**

Milk Cows That Have Calved Inventory By County, January 1

County and District	1986	1987	1988	1989	1990
West			Head		
Clallam	1,100	1,000	1,000	1,000	1,100
Clark	8,900	8,200	8,500	8,500	8,700
Cowlitz	1,300	1,200	1,300	1,300	1,500
Grays Harbor	5,900	5,400	5,600	5,600	5,800
Island	2,300	2,100	2,200	2,200	2,400
Jefferson	800	700	700	700	800
King	17,900	16,500	17,100	17,000	17,000
Kitsap	1/	1/	1/	1/	1/
Lewis	12,200	11,200	11,600	11,600	12,000
Mason	1/	1/	1/	1/	1/
Pacific	1,900	1,800	1,900	1,900	1,800
Pierce	12,700	11,700	12,200	12,100	12,000
San Juan	1/	1/	1/	1/	1/
Skagit	19,700	18,100	18,800	18,700	19,700
Skamania	1/	1/	1/	1/	1/
Snohomish	23,500	21,600	22,400	22,400	22,900
Thurston	7,300	6,700	7,000	7,000	7,100
Wahkiakum	1,800	1,700	1,800	1,800	1,900
Whatcom	56,900	52,400	54,400	54,400	56,000
Other	300	300	300	300	300
Total	**174,500**	**160,600**	**166,800**	**166,500**	**171,000**
Central					
Benton	900	800	800	1,000	1,100
Chelan	1/	1/	1/	1/	1/
Kittitas	1,100	1,000	1,100	1,000	800
Klickitat	1,100	1,000	1,000	1,000	800
Okanogan	1/	1/	1/	1/	1/
Yakima	25,700	23,700	24,600	24,500	25,000
Other	200	200	200	200	300
Total	**29,000**	**26,700**	**27,700**	**27,700**	**28,000**
Northeast					
Ferry	1/	1/	1/	1/	1/
Pend Oreille	1/	1/	1/	1/	1/
Spokane	3,800	3,500	3,600	3,600	3,800
Stevens	4,100	3,700	3,900	3,700	3,800
Other	300	300	300	400	400
Total	**8,200**	**7,500**	**7,800**	**7,700**	**8,000**
East Central					
Adams	2,100	1,900	2,000	2,000	1,800
Douglas	1/	1/	1/	1/	1/
Franklin	2,900	2,700	2,800	2,800	2,600
Grant	7,700	7,100	7,400	7,400	7,200
Lincoln	1/	1/	1/	1/	1/
Other	100	100	100	300	800
Total	**12,800**	**11,800**	**12,300**	**12,500**	**12,400**
Southeast					
Asotin	1/	1/	1/	1/	1/
Columbia	1/	1/	1/	1/	1/
Garfield	1/	1/	1/	1/	1/
Walla Walla	1,100	1,000	1,000	1,100	1,100
Whitman	300	300	300	300	300
Other	100	100	100	200	200
Total	**1,500**	**1,400**	**1,400**	**1,600**	**1,600**
State Total	**226,000**	**208,000**	**216,000**	**216,000**	**221,000**

1/ Included in "other".

Sheep and Lamb Inventory By County, January 1

County and District	1986	1987	1988	1989	1990
West			**Head**		
Clallam	1,400	1,500	1,500	1,700	1,300
Clark	1,700	1,700	2,000	1,800	2,200
Cowlitz	800	800	850	700	700
Grays Harbor	200	400	450	300	300
Island	200	300	350	300	400
Jefferson	100	200	150	100	100
King	1,000	1,000	1,300	1,400	1,600
Kitsap	400	1,100	1,200	800	900
Lewis	2,400	2,400	2,400	2,500	2,000
Mason	100	200	200	200	200
Pacific	50	250	200	200	200
Pierce	800	800	800	1,100	1,200
San Juan	2,400	2,300	1,700	1,700	2,000
Skagit	500	500	600	600	700
Skamania	250	250	300	200	200
Snohomish	2,200	1,800	1,900	1,900	2,200
Thurston	1,100	1,100	1,100	1,200	1,500
Wahkiakum	100	200	200	800	800
Whatcom	700	700	600	500	500
Total	**16,400**	**17,500**	**17,800**	**18,000**	**19,000**
Central					
Benton	3,900	2,800	2,800	2,000	1,800
Chelan	300	300	400	300	400
Kittitas	5,300	5,800	6,000	4,700	6,400
Klickitat	2,000	2,500	3,000	3,000	3,700
Okanogan	2,200	2,300	2,500	4,900	6,500
Yakima	11,000	11,000	21,900	21,900	24,200
Total	**24,700**	**24,700**	**36,600**	**36,800**	**43,000**
Northeast					
Ferry	500	500	500	400	400
Pend Oreille	300	300	300	200	200
Spokane	2,100	2,000	2,500	3,700	4,300
Stevens	1,500	1,700	1,700	1,600	1,600
Total	**4,400**	**4,500**	**5,000**	**5,900**	**6,500**
East Central					
Adams	1,000	900	1,000	900	1,400
Douglas	500	600	500	400	400
Franklin	1,500	2,000	2,300	3,400	3,500
Grant	3,300	3,000	3,200	3,700	4,500
Lincoln	2,000	1,500	1,500	1,300	1,200
Total	**8,300**	**8,000**	**8,500**	**9,700**	**11,000**
Southeast					
Asotin	350	350	350	200	300
Columbia	300	300	300	200	200
Garfield	450	450	450	200	400
Walla Walla	1,300	1,400	1,000	1,000	1,000
Whitman	1,800	1,800	2,000	2,000	1,600
Total	**4,200**	**4,300**	**4,100**	**3,600**	**3,500**
State Total	**58,000**	**59,000**	**72,000**	**74,000**	**83,000**

Hog and Pig Inventory By County, December 1

County and District	1985	1986	1987	1988	1989
West			**Head**		
Clallam	200	200	250	300	300
Clark	700	700	600	900	900
Cowlitz	100	100	100	200	200
Grays Harbor	200	200	200	150	150
Island	200	200	150	150	150
Jefferson	100	100	100	50	50
King	1,000	900	800	1,300	1,300
Kitsap	300	400	500	300	300
Lewis	300	300	300	500	500
Mason	100	100	100	100	100
Pacific	150	150	150	200	200
Pierce	500	500	400	1,000	1,200
San Juan	50	50	50	50	50
Skagit	200	100	100	400	400
Skamania	50	50	50	50	50
Snohomish	500	500	500	600	600
Thurston	400	400	400	700	700
Wahkiakum	50	50	50	50	50
Whatcom	500	500	500	1,500	1,800
Total	**5,600**	**5,500**	**5,300**	**8,500**	**9,000**
Central					
Benton	1,800	1,800	1,900	1,400	1,100
Chelan	300	300	300	300	300
Kittitas	2,600	2,100	2,200	1,200	800
Klickitat	600	800	800	600	800
Okanogan	1,200	1,100	1,400	1,000	900
Yakima	2,000	2,200	2,200	1,900	2,100
Total	**8,500**	**8,300**	**8,800**	**6,400**	**6,000**
Northeast					
Ferry	300	200	200	100	100
Pend Oreille	500	400	400	200	200
Spokane	3,500	3,400	3,400	4,300	3,500
Stevens	3,500	3,400	3,500	3,600	4,200
Total	**7,800**	**7,400**	**7,500**	**8,200**	**8,000**
Adams	**1,500**	**1,400**	**1,500**	**3,500**	**3,000**
Douglas	500	500	400	800	800
Franklin	3,000	3,100	3,400	2,200	3,000
Grant	6,000	6,200	6,500	7,100	6,500
Lincoln	2,500	2,000	2,000	1,400	1,700
Total	**13,500**	**13,200**	**13,800**	**15,000**	**15,000**
Southeast					
Asotin	400	400	400	400	400
Columbia	1,100	1,000	1,200	1,000	800
Garfield	1,000	900	900	700	600
Walla Walla	1,100	1,000	1,100	1,800	2,200
Whitman	12,000	12,300	16,000	11,000	14,000
Total	**15,600**	**15,600**	**19,600**	**14,900**	**18,000**
State Total	**51,000**	**50,000**	**55,000**	**53,000**	**56,000**

Commercial Broiler Production By County

District	1985	1986	1987	1988	1989
			Head		
Clark	1,763,000	1,908,000	1,990,000	2,023,000	2,190,000
Cowlitz	1,541,000	1,682,000	1,755,000	1,837,000	1,988,000
Grays Harbor	110,000	125,000	130,000	276,000	299,000
King	1,609,000	1,757,000	1,935,000	1,818,000	1,968,000
Lewis	4,337,000	4,719,000	5,027,000	5,223,000	5,655,000
Pierce	3,208,000	3,489,000	3,742,000	2,972,000	3,217,000
Skagit	475,000	527,000	550,000	600,000	650,000
Snohomish	4,094,000	4,468,000	4,765,000	3,872,000	4,193,000
Thurston	2,890,000	3,162,000	3,400,000	3,714,000	4,022,000
Whatcom	2,106,000	2,309,000	2,510,000	2,584,000	2,798,000
Yakima	504,000	552,000	576,000	2,974,000	3,220,000
Other	363,000	402,000	420,000	307,000	300,000
State Total	**23,000,000**	**25,100,000**	**26,800,000**	**28,200,000**	**30,500,000**

Mink - Females Bred By County

County	1986	1987	1988	1989	1990
			Head		
King	3,400	3,400	3,000	4,200	2,000
Pierce	12,600	11,900	11,900	10,600	6,600
Snohomish	16,900	19,300	20,400	21,700	14,300
Thurston	6,100	6,000	6,700	6,200	4,800
Whatcom	4,700	5,200	5,400	6,300	5,500
Kittitas	10,200	10,300	12,400	11,200	8,000
Other	1,100	1,100	1,600	1,800	1,600
State Total	**55,000**	**57,200**	**61,400**	**62,000**	**42,800**

Mink - Pelts Produced By County

County	1985	1986	1987	1988	1989
			Pelts		
King	15,800	10,500	10,400	12,200	14,700
Pierce	54,000	42,700	45,300	46,400	36,600
Snohomish	61,200	72,800	69,000	78,700	87,200
Thurston	22,900	21,700	22,300	24,100	19,700
Whatcom	17,500	19,300	18,600	22,400	22,500
Kittitas	46,800	46,200	48,300	54,600	50,700
Other	7,800	4,100	6,000	5,600	5,800
State Total	**226,000**	**217,300**	**219,900**	**244,000**	**237,200**

AQUACULTURE

Aquaculture is the cultivation of sea animals and plants in controlled fresh water and marine environments and is an expanding agricultural enterprise within Washington State. Aquaculture in Washington consists mainly of salmon, trout, clam and oyster production.

Aquaculture in Washington produced over $41 million during 1988. These data are preliminary levels provided by the Department of Fisheries for the State of Washington. The 1988 value at $41.8 million was 72% higher than 1987. The 1989 data is not available.

Data from the Department of Fisheries showed trout and salmon accounted for slightly less than half of the total for 1988 with $19.8 million. The value of oysters at $16.6 million was three times the value of clams at $5.1 million.

The Department of Fisheries started a registration system of aquatic farms in 1986. There are currently 787 operations registered with the Department. If the multiple operations and inactive operations are removed, there are still over 400 fish and shellfish operators in Washington. About one-third have clams and about one-half raise oysters, and many of these operators raise both. There are currently 13 commercial pen salmon operations on Puget Sound that raise Pacific and Atlantic salmon.

The Washington Agricultural Statistics Service (WASS) conducts an annual survey of commercially produced freshwater trout and the sales value was estimated at $4.2 million for just this segment of aquaculture for the 12-month period of September 1, 1988 - August 31, 1989. Sales at this level of $4.2 million was 42% more than the comparable period a year earlier.

Washington is the sixth ranking state in the nation for trout sales following Idaho as the lead state with $28.8 million; California and North Carolina had sales of $8.8 and $8.7 million respectively; and Utah and Pennsylvania had $4.7 and $4.3 million in sales, respectively. There were 34 fresh water trout operations in Washington during the current year compared with 32 operations the previous year. There are 15 states in the annual trout survey with a combined total value of sales at $72.6 million.

The future of aquaculture in Washington State is a challenging issue. Public concerns about use conflicts, shoreline asthetics, and potential biological impacts are debated at local and state government levels. There is great potential for aquaculture to become a strong link in Washington's agricultural food supply chain. Current operations include innovative salmon net pen farming, state of the art shellfish hatcheries, and off-bottom shellfish culture.

Trout: Number of Operations with Sales and Total Sales For the Periods of Sept. 1 - Aug. 31.

State	Number of Operations		Total Sales	
	1988	1989	1988 1/	1989
	Number		1,000 Dollars	
California	31	24	4,974	8,848
Idaho	38	24	31,544	28,766
North Carolina	82	80	5,285	8,685
Pennsylvania	46	39	3,806	4,333
Utah	9	14	5,429	4,731
Washington	32	34	2,983	4,230
Total 15 states	**518**	**478**	**66,444**	**72,634**

1/ Total value of sales for 1988 does not include the value of fingerling sales.

Aquaculture Production, Washington, 1986-88

Species	Quantity			Ex-Vessel Value 2/		
	1986	1987	1988	1986	1987	1988
Fish	Pounds			Dollars		
Salmon 1/						
Market	2,532,367	3,362,354	3,554,214	3,738,323	5,001,141	5,690,008
Juvenile	N/A	6,198	378	N/A	25,442	1,682
Eggs	15,769	10,537	19,450	434,867	311,740	678,200
Trout						
Market	327,391	259,532	277,975	593,301	554,638	522,357
Juvenile	63,211	74,180	46,616	140,918	194,370	243,302
Eggs	49,814	61,402	70,475	1,506,712	1,889,412	2,577,100
Atlantic Salmon						
Market	17,811	248,223	1,976,540	67,413	1,175,984	9,614,812
Juvenile	7,542	28,008	18,798	265,444	553,355	313,681
Eggs	N/A	1,612	975	N/A	263,271	200,360
Total Market	**2,877,569**	**3,870,109**	**5,808,729**	**4,399,037**	**6,731,763**	**15,827,177**
Total Juvenile	**70,753**	**108,386**	**65,792**	**406,362**	**773,167**	**558,665**
Total Eggs	**65,583**	**73,551**	**90,900**	**1,941,579**	**2,464,423**	**3,455,660**
Total Fish	**3,013,905**	**4,052,046**	**5,965,421**	**6,746,978**	**9,969,353**	**19,841,502**
Clams						
Butter	70,370	14,096	8,959	12,007	5,880	3,605
Cockles	N/A	1,632	2,450	N/A	346	522
Geoducks	N/A	2,494	N/A	N/A	3,232	N/A
Horse	77,910	21,648	6,575	6,193	6,874	1,823
Littleneck	926,493	994,985	802,027	754,143	541,463	561,219
Manila	3,696,211	3,159,187	3,364,439	3,459,931	2,472,100	3,816,153
Mud	N/A	N/A	536	N/A	N/A	670
Mussels	297,313	284,684	486,146	349,412	343,306	622,126
Softshell	422,846	191,780	139,603	140,356	102,063	66,046
Manila Clam Seed	N/A	N/A	N/A	N/A	50	2,600
Scallops	N/A	268	307	N/A	933	936
Total Clams	**5,491,143**	**4,670,774**	**4,811,042**	**4,722,042**	**3,476,247**	**5,075,700**
Oysters						
Eastern	N/A	N/A	175	N/A	N/A	2,114
Olympia	7,457	7,125	39,498	167,364	109,780	1,337,694
Pacific	8,638,877	9,352,384	8,920,424	10,993,283	10,253,870	13,392,957
Kumamoto	N/A	N/A	89	N/A	N/A	1,608
Edulis	5,412	N/A	37,961	52,033	N/A	1,842,216
Other	N/A	9,342	N/A	N/A	56,225	N/A
Total Oysters	**8,651,746**	**9,368,851**	**8,998,147**	**11,212,680**	**10,419,875**	**16,576,589**
Oyster Seed (Bags)	(28,655)	(28,329)	(32,278)	301,922	363,291	284,000
Nori	N/A	35	6,289	N/A	310	N/A
Total Production 3/	**17,156,794**	**18,091,706**	**19,774,461**	**22,983,622**	**24,229,076**	**41,777,791**

1/ Chinook and Coho.
2/ Ex-vessel value is the value of revenue received by fishermen/harvesters.
3/ Total production quantity does not include oyster seed.
N/A - Not available.
Source: Department of Fisheries, State of Washington.

Reprinted from Washington Agricultural Statistics 1988-1989.

Washington Agricultural Statistics Service

Current estimates of the data published in this bulletin are available throughout the year. The following table identifies the types of data available for each commodity by month. The current estimates are published in a semi-monthly publication "Agri-Facts". The annual subscription fee for "Agri-Facts" is $15 per year. Reporters for our surveys receive reports free of charge.

Washington Agricultural Statistics Service Reports

A = Acreage, P = Production, X = Estimates Released, PU = Production and Utilization, PDI = Production, Disposition, and Income, S = Stocks.

Commodity	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Winter Wheat	A,P				A,P	A,P	A,P	A,P		A,P		
Spring Wheat	A,P		A				A,P	A,P	A,P			
Barley	A,P		A			A	A,P	A,P	A,P	A,P		
Oats	A,P		A			A	A,P	A,P		A,P		
Field Corn			A			A						
For Grain	A,P							A,P	A,P	A,P	A,P	
For Silage	A,P											
Dry Edible Beans	A,P		A			A		A,P	A,P	A,P	A,P	A,P
Dry Peas and Lentils	A,P									A,P		
Potatoes	A,P,S	S	S	S	S		A		A,PU		A,P	S
Hops	A,P		S			P	A	P	S			
Hay	A,P,S		A		S	A		A,P		A,P		
Mint	A,P											
Grain Stocks	S		S			S			S			
Apples	PU						PU	P		P		
Apricots	PU					P	PU					
Cherries, Sweet	PU					P	P					
Grapes	PU						PU	P	P	P		
Peaches	PU					P	P	P				
Pears, Bartlett	PU					P	PU	P	P			
Pears, Other	PU						PU	P	P			
Prunes	PU							P	P	P		
Cranberries	A,P							P				
Strawberries	A,P					A,P			A,P			A,P
Onions: Storage	A,P		A				A		A,P	A,P		
Non-Storage	A,P		A		A		A,P	A,P				
Vegetables	A,P		A			A,P	A,P	A,P	A,P			
Cattle on Feed	X			X			X			X		
Cattle Inventory & Calf Crop		X		PDI								
Milk Production	X	X	X	X	X	X	X	X	X	X	X	X
Manufactured Dairy Products	X	X	X	X	X	X	X	X	X	X	X	X
Sheep Inventory & Lamb Crop		X		PDI								
Wool Production			X									
Hog Inventory & Pig Crop	X			PDI								
Livestock Slaughter	X	X	X	X	X	X	X	X	X	X	X	X
Egg Production	X	X	X	X	X	X	X	X	X	X	X	X
Hatchery and Broilers				PDI								
Bees and Honey		X										
Mink							X					

WSU COOPERATIVE EXTENSTION SERVICE COUNTY AGENTS

County	Address	City	Phone
Adams	210 W. Broadway	Ritzville 99169	(509)659-0090
Asotin	PO Box 9	Asotin 99402	(509)243-4118
Benton	1121 Dudley Ave	Prosser 99350	(509)786-5609
Chelan	400 Washington St	Wenatchee 98801	(509)664-5540
Clallam	223 E 4th St	Port Angeles 98362	(206)452-7831
Clark	2400 T St	Vancouver 98661	(206)696-8411
Columbia	202 S 2nd St	Dayton 99328	(509)382-4741
Cowlitz	207 4th Ave N	Kelso 98626	(206)577-3014
Douglas	Courthouse, Box 550	Waterville 98858	(509)745-8531
Ferry	PO Box 345	Republic 99166	(509)775-3161
Franklin	Courthouse	Pasco 99301	(509)545-3511
Garfield	Courthouse	Pomeroy 99347	(509)843-3701
Grant	PO Box 37	Ephrata 98823	(509)754-2011
Grays Harbor	PO Box 552	Montesano 98563	(206)249-4332
Island	Courthouse	Coupeville 98239	(206)679-7327
Jefferson	PO Box 572	Port Townsend 98368	(206)385-3581
King	506 Second Ave, Room 612	Seattle 98104	(206)296-3986
Kitsap	PO Box 146	Port Orchard 98366	(206)876-7157
Kittitas	Courthouse, 5th & Main	Ellensburg 98926	(509)962-7507
Klickitat	228 W Main, Room 210	Goldendale 98620	(206)773-5817
Lewis	PO Box 708	Chehalis 98532	(206)748-9121
Lincoln	PO Box 399	Davenport 99122	(509)725-4171
Mason	9 Federal Bldg	Shelton 98584	(206)427-9670
Okanogan	Courthouse	Okanogan 98840	(509)422-3670
Pacific	PO Box 88	South Bend 98586	(206)875-9331
Pend Oreille	PO Box 5000	Newport 99156	(509)447-2401
Pierce	2401 S 35th	Tacoma 98409	(206)591-7180
San Juan	PO Box 609	Friday Harbor 98250	(206)378-4414
Skagit	112 County Admin Bldg	Mount Vernon 98273	(206)336-9322
Skamania	PO Box 790	Stevenson 98648	(509)427-5141
Snohomish	600 128th St SE	Everett 98208	(206)338-2400
Spokane	N 222 Havana	Spokane 99202	(509)456-3651
Stevens	230 Williams Lake Rd	Colville 99114	(509)684-2588
Thurston	921 Lakeridge Dr SW, Room 216	Olympia 98502	(206)786-5445
Wahkiakum	PO Box 278	Cathlamet 98612	(206)795-3278
Walla Walla	314 W Main St	Walla Walla 99362	(509)527-3260
Whatcom	1000 N Forest St	Bellingham 98225	(206)676-6736
Whitman	310 N Main	Colfax 99111	(509)397-6290
Yakima	233 Courthouse	Yakima 98901	(509)575-4218